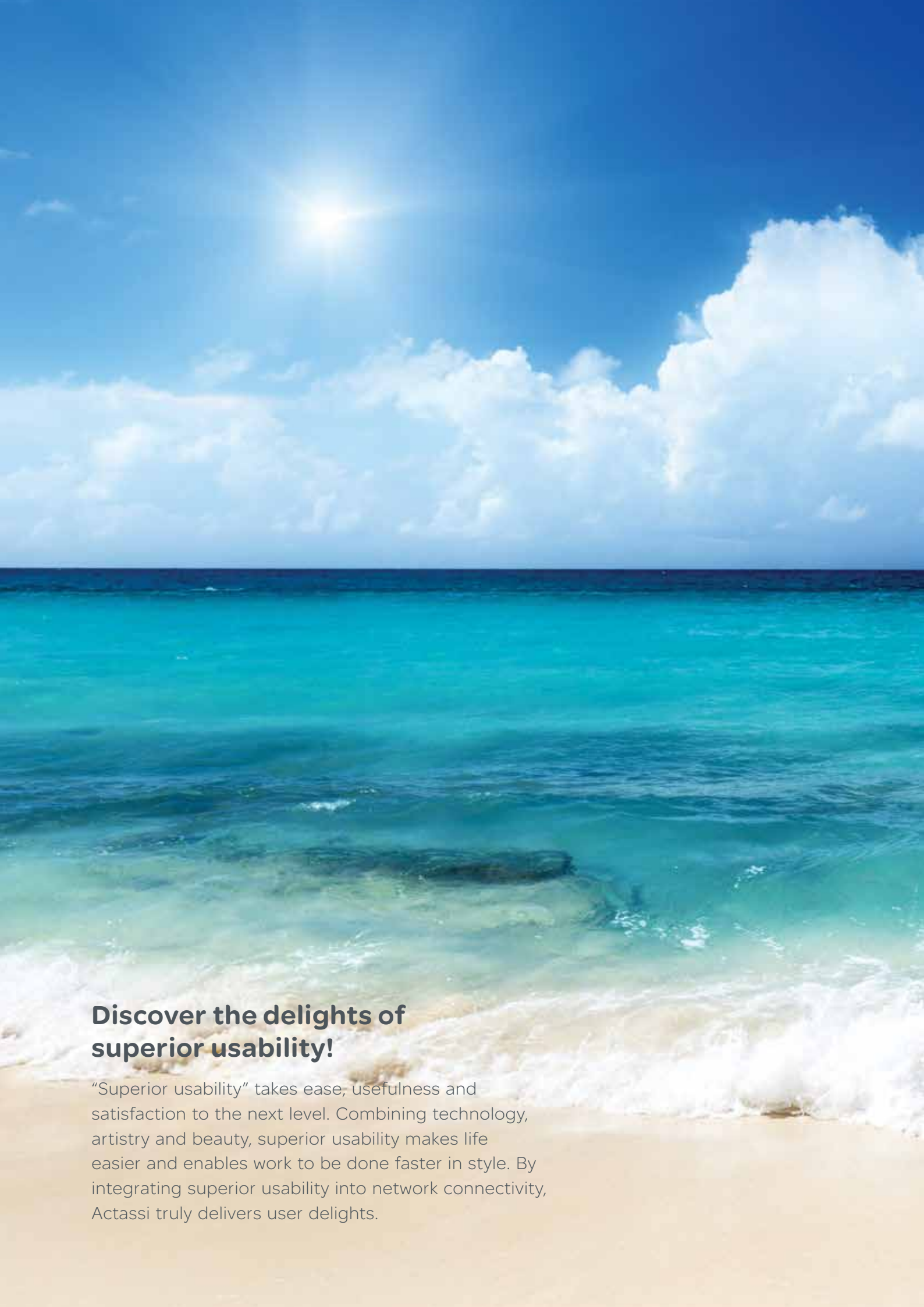


User Delighting End-to-End Connectivity



Discover the delights of superior usability!

“Superior usability” takes ease, usefulness and satisfaction to the next level. Combining technology, artistry and beauty, superior usability makes life easier and enables work to be done faster in style. By integrating superior usability into network connectivity, Actassi truly delivers user delights.



Actassi means “share the ocean”.

By choosing Actassi as your network connectivity solution, you will enter a “blue ocean” of ideas where connectivity becomes user-centric and truly delightful rather than merely easy to use.

Actassi network connectivity solutions for data centres

Telecommunication Room (TR)

Actassi multi-mode OM4 Fibre Cables for speeds beyond 40 Gigabit/s and 100 Gigabit/s.



Multi-mode OM4 Fibre Cables

Entrance Room (ER)

Actassi single-mode OS2 Fibre Cables for optimised cable performance in entrance room.



Single-mode OS2 Fibre Cables

Equipment Distribution Area (EDA)

Actassi ID-Tracer™ Smart Patching Solution for optimised network management; Tough Cabling for superior data transmission performance regardless of installation quality; and 10G Solution for fast data transmission over extensive equipment distributions.



ID-Tracer™ Smart Patching (Copper)



F² Cables



10G Solution



ID-3™ F² Patch Cords

Storage Area

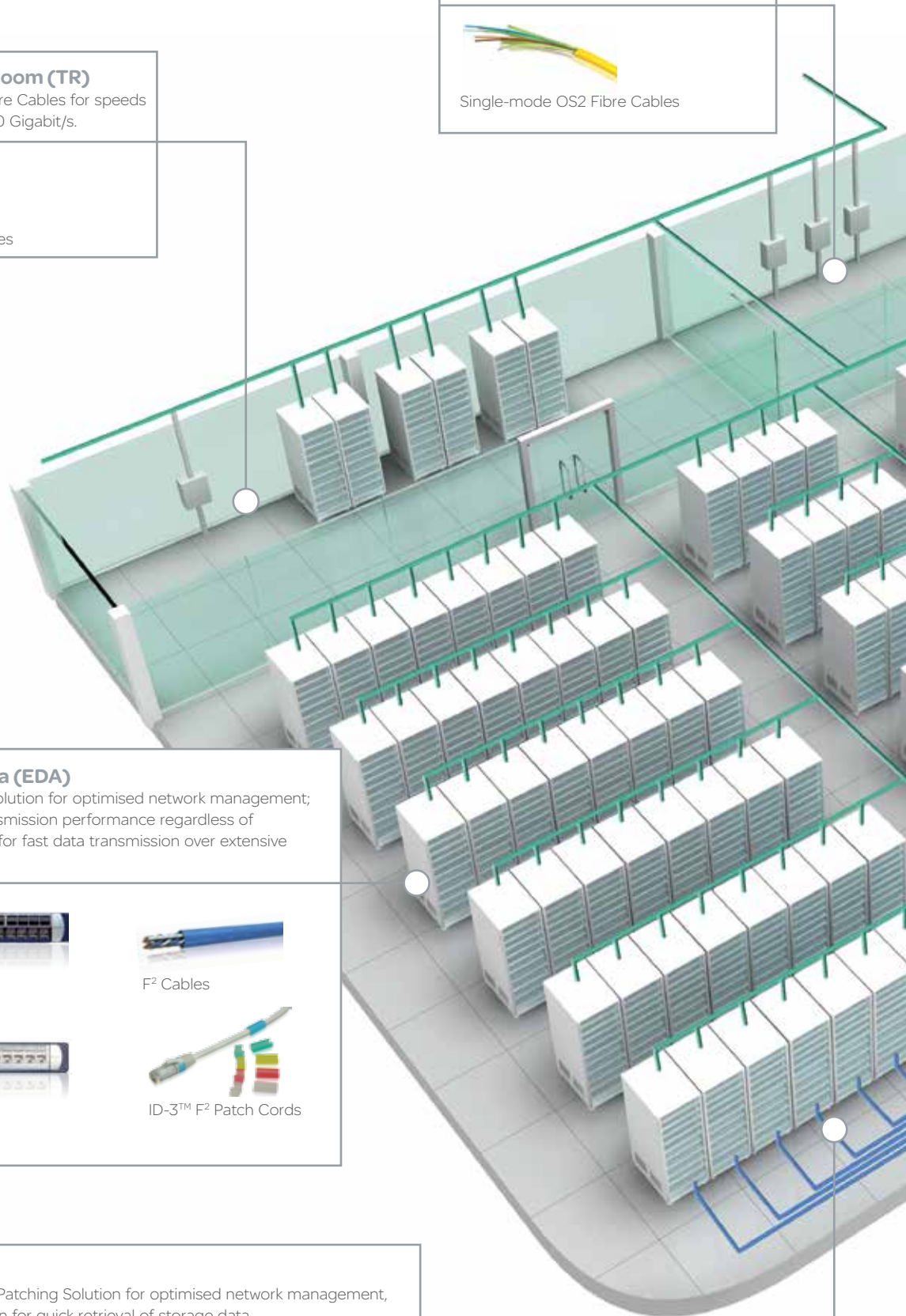
Actassi ID-Tracer™ Smart Patching Solution for optimised network management, and Actassi's Fibre Solution for quick retrieval of storage data.



Fibre Solution



ID-Tracer™ Smart Patching (Fibre)



Test Lab

Actassi ID-Tracer™ Smart Patching and Tough Cabling for efficient testing activities.



F² Cables



ID-Tracer™ Smart Patching

Control Room

Actassi Tough Cabling for superior data transmission, and F² Secure Patch Cords to ensure there are no unauthorised disconnections.



F² Cables



ID-3™ F² Secure Patch Cords

Main Distribution Area (MDA)

Actassi MPO plug-n-play solution for high bandwidth demand, high-density reliability and scalability.



MPO Solution

Horizontal Distribution Area (HDA)

Actassi ID-Tracer™ Smart Patching Solution for optimised network management; MPO Plug-n-play solution for guaranteed performance; and 10G Solution for fast data transmission over extensive data applications.



ID-Tracer™ Smart Patching



10G Solution



MPO Solution

Backbone cabling

Horizontal cabling



From building backbone...

Actassi provides superior usability in network connectivity from end-to-end for an array of buildings such as offices, hotels, hospitals, educational institutions and many more. It all starts off with the campus cabling that links network connectivity of different buildings or the backbone cabling for individual buildings. They set the foundation of network connectivity in all types of buildings. Actassi fibre and 10G Solutions are specially designed to provide robust and reliable structured cabling for high-speed data networks in campus and building backbone environments.

... to server rooms

Combined with the ID-Tracer™ Smart Patching Solution, Tough Cabling allows easy installation and maximum control of network operations in server rooms. They greatly simplify network operations. Actassi is designed to delight technologically savvy IT professionals so they can enjoy the peace of mind that comes from exceptional levels of product reliability and control.

... to meeting rooms

Create an organised and stylish impression of meeting rooms with Actassi's secure, reliable and easily wired network connections. Install Ergo-Aesthetic Terminals and bid farewell to tangled patch cords on and under conference tables.

... to workstations

Improve the ergonomics of your workstations with Ergo-Aesthetic Terminals. Delivering convenient connectivity, they spell an end to fumbling around for patch cords.

... to hotel guest rooms

When travelling out of town on business or pleasure, thoughtful Actassi Ergo-Aesthetic Terminals found in hotel rooms will make a world of difference to your stay.



Server room



Meeting room



Workstation



Hotel guest room

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Multi-Fibre Push On (MPO) Solution

MPO Enclosure

Schneider Electric MPO (Multi-Fiber Push On) System is a pre-terminated optical fiber cabling system specifically designed to satisfy the increasing demand for high bandwidth and high density in data center network, enterprise building applications.

Factory-terminated solutions provide improved system performance; ensure component compatibility and consistent quality. The MPO system significantly reduces installation time and cost by simplifying the process of deploying an optical network in the limited space environment, particularly in data center applications.

Schneider Electric offers an innovative, robust 1U enclosure with sliding mechanism for 3 MPO cassettes and 4U enclosure for 12 MPO cassettes. It offers a flexible solution to customers, enabling them to incorporate a multi-functional enclosure which allow easy access during installation or maintenance, with no disturbance of existing cables.



TECHNICAL SPECIFICATIONS

Material	Power Coated Mild Steel
Color	Black
Capacity	1U Unit : MPO Cassette x 3 (Max.) 4U Unit : MPO Cassette x 12 (Max.)
Dimension	1U Unit : 400 x 482 x 44mm 4U Unit : 400 x 482 x 175mm

PRODUCT FEATURES

- Fits 19" standard rack or cabinet
- Accommodate to all available MPO cassettes
- Adjustable wiring ring for cable management
- Flexigrass front door with magnetic suction
- Cable gland with 'U' rubber seal
- Compliant with EIA-310-D

CUSTOMER BENEFITS

- Support indoor applications for data centre, premise installations, telecommunication networks
- Easy to manage cable assemblies or fan-out cables
- Flexible to manage incoming trunk cables or cable assemblies

CATALOGUE NUMBER	DESCRIPTION
ACTMP1U	MPO Enclosure, 1U, fits 3 MPO Cassettes, Unloaded
ACTMP4U	MPO Enclosure, 4U, fits 12 MPO Cassettes, Unloaded

MPO Cassette

Schneider Electric MPO (MTP brand) fiber cassette is a repaid and flexible plug and play cable management solution to improve cabling manageability.

Each fiber cassette is pre-installed with factory terminated and tested to assure quality on optical loss performance. The fiber cassette is flexible to be integrated into 1U/4U MPO enclosures, which support rapid deployment and reliable cable management of high density data centre infrastructure.



ACTMMOT24xx

TECHNICAL SPECIFICATIONS

Material	Power Coated Mild Steel
Color	Black
Accommodation	Pluggable Module Options 12/24 x LC Connectors 12-core MTP Connector
Dimension	136 x 104.5 x 39.5mm
Environment	Operating Temperature : -20°C ~ 60°C Installation Temperature : -5°C ~ 50°C

Optical Performance

Cable Performance	Single mode (OS2)		Multi mode (OM3/OM4)	
	1310nm	1550nm	850nm	1300nm
Attenuation dB/km	≤0.45	≤0.3	≤3.5	≤1.5

Connector Performance

MTP	Single mode APC		Multi mode PC	
Insertion loss (dB)	≤0.5	≤0.5	≤0.5	≤0.5
RL (dB)	≥60	≥60	≥20	≥20

LC (UPC)	Single mode		Multi mode	
Insertion loss (dB)	≤0.2	≤0.2	≤0.15	≤0.15
RL (dB)	≥50	≥50	≥30	≥30

PRODUCT FEATURES

- MTP (US Conec) brand MPO in standard compliant multi fiber connector
- Duplex LC adaptors faceplate
- OS2, OM3 and OM4 fiber available
- Factory terminated and tested
- Options of polarity (straight through, reversed pair flip)
- Compliant with TIA/EIA-568-C.3, ISO/IEC 11801

CUSTOMER BENEFITS

- Simple installation and reconfiguration for Moves, Adds and Changes (MACs)
- High density easy-plug cassette (12-fiber per cassette as standard)
- Reduces labour cost and saves times on installation and testing
- Offer high precision and robust connectivity

CATALOGUE NUMBER	DESCRIPTION
ACTMMOS12xx	MPO Cassette, 12-Core, LC Duplex, Single-Mode OS2
ACTMMOS24xx	MPO Cassette, 24-Core, LC Duplex, Single-Mode OS2
ACTMMOT12xx	MPO Cassette, 12-Core, LC Duplex, Multi-Mode OM3
ACTMMOT24xx	MPO Cassette, 24-Core, LC Duplex, Multi-Mode OM3
ACTMMOG12xx	MPO Cassette, 12-Core, LC Duplex, Multi-Mode OM4
ACTMMOG24xx	MPO Cassette, 24-Core, LC Duplex, Multi-Mode OM4
ACTMPBP	Blank Module Plate, Snap-in type

where **xx** denotes polarity (S:straight through, F:Pair Flipped, R:Reversed, RF:Reversed, Pair Flipped)

Trunk Cables

Schneider MPO (MTP brand) trunk cables providing an effective way to install a large amount of cables quickly. It is especially suitable for the areas that require high density, rapid deployment and high performance such as Data Centre.

These high performance factory terminated and tested assemblies are pre-terminated 12-fiber MTP connectors in LC connectors and offered in customer specified lengths. Normal fiber count is 12 or 24 (high core counts up to 144 fibers available) and fiber types (OS2, OM3, OM4) are available for each installation needs.



ACTMTMMT12LS055R

TECHNICAL SPECIFICATIONS

Material

Connectors	MTP-MTP, MTP-LC
Cables	12/24/.../144

Cable Structure

Fiber	OS2, OM3, OM4
Strength Merinber	Aramid yarn
Inner Sheath	LSZH or PVC (OFNP) or Outer

Optical Performance

Cable Performance	Single mode (OS2)		Multi mode (OM3/OM4)	
	1010nm	1550nm	850nm	1300nm
Attenuation dB/km	≤0.45	≤0.3	≤3.5	≤1.5

Connector Performance

MTP	Single mode APC		Multi mode PC	
	≤0.5	≤0.5	≤0.5	≤0.5
Insertion loss (dB)	≥60	≥60	≥20	≥20
RL (dB)				
LC (UPC)	Single mode		Multi mode	
	≤0.2	≤0.2	≤0.15	≤0.15
Insertion loss (dB)	≥50	≥50	≥30	≥30
RL (dB)				

PRODUCT FEATURES

- Compliant TIA/EIA-568-C3, ISO/IEC11801, TIA/EIA-604-5
- 100% factory terminated and tested
- Use of low loss MTP connectors
- Options of polarity (straight through, reversed, pair flipped)
- Provide pulling eye at both ends of the cable
- Label on the trunk cable for traceability

CUSTOMER BENEFITS

- A reliable high density, high performance optic interconnections
- Quick and easy connection with MTP mechanism
- Low insertion loss and reflectance for cable
- No cable preparation is necessary
- Reduced on-site disruption and installation time
- Pulling eye design to fit for different installation environment
- Cost effective optic cabling solution

CATALOGUE NUMBER	DESCRIPTION
ACTMTMSxxFPyyz	MTP-MTP Trunk Cable, Single-Mode OS2, OFNP
ACTMTMLSxxFPyyz	MTP-LC Duplex Trunk Cable, Single-Mode OS2, OFNP
ACTMTMSxxLSyyz	MTP-MTP Trunk Cable, Single-Mode OS2, LSZH
ACTMTMLSxxLSyyz	MTP-LC Duplex Trunk Cable, Single-Mode OS2, LSZH
ACTMTMMTxxFPyyz	MTP-MTP Trunk Cable, Multi-Mode OM3, OFNP
ACTMTMLTxxFPyyz	MTP-LC Duplex Trunk Cable, Multi-Mode OM3, OFNP
ACTMTMMTxxLSyyz	MTP-MTP Trunk Cable, Multi-Mode OM3, LSZH
ACTMTMLTxxLSyyz	MTP-LC Duplex Trunk Cable, Multi-Mode OM3, LSZH

where **xx** denotes number of fibre core: 12, 24 **yyy** denotes length: 5 to 60m with separator of 5m (e.g. 025 - 25m) **z** denotes polarity (S: Straight through, F: Pair flipped, R: Reversed)

Harness and Fan-out Cables

Schneider Electric MTP ruggedized harness fan-out assembly is ideal for short internal interconnection. They are used to directly interconnect MTP cassettes, panels or backbone. MTP assemblies with the active equipment, saving costly data centre rack space and easing fiber management.

MTP harness / fan-out assemblies are offered in fiber count 12 and 24 fibers (up to 144 fibers versions) using a compact and suggest micro cable structure. The compact cables optimize pathway use and improve airflow.



ACTMHMLT20185F

TECHNICAL SPECIFICATIONS

Material

Connectors	MTP-LC
Cables	12/24 core fibers

Cable Structure

Fiber	OS2, OM3, OM4
Strength Merinber	Aramid yarn
Inner Sheath	LSZH or PVC (OFNP)

Optical Performance

Cable Performance	Single mode (OS2)		Multi mode (OM3/OM4)	
	1310nm	1550nm	850nm	1300nm
Attenuation dB/km	≤0.45	≤0.3	≤3.5	≤1.5

Connector Performance

MTP	Single mode APC		Multi mode PC	
	Insertion loss (dB)	RL (dB)	Insertion loss (dB)	RL (dB)
Insertion loss (dB)	≤0.5	≥60	≤0.5	≥20
RL (dB)	≤0.5	≥60	≤0.5	≥20

LC (UPC)	Single mode		Multi mode	
	Insertion loss (dB)	RL (dB)	Insertion loss (dB)	RL (dB)
Insertion loss (dB)	≤0.2	≥50	≤0.15	≥30
RL (dB)	≤0.2	≥50	≤0.15	≥30

PRODUCT FEATURES

- Compliant to TIA/EIA-568-C.3, ISO/IEC 11801, TIA/EIA-604-5 & IEC-61754-7
- Standard fiber offer: OS2, OM3, OM4
- 12/24 core micro cable trunk assemblies
- LSZH, OFNP cable jacket
- 100% factory terminated and tested
- Use of low loss MTP connectors
- Options of polarity (straight through, reversed, pair flipped)
- Add pulling eye at MTP connector if cable length exceeds 20m
- Label on the harness cable for traceability

CUSTOMER BENEFITS

- Multiple fibers angles and flammability options
- Application specific design 12 up to 144 fibers
- Can be secured to cabinet mounting profile for saving space
- Compact cable
- Reduced interconnection topology improves power budget
- High reliability due to 100% factory terminated and tested

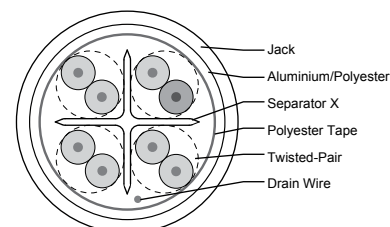
CATALOGUE NUMBER	DESCRIPTION
ACTMHLSxxyyyZ	MTP-LC Duplex Fan-out Cable, 12-Core, Single-Mode OS2
ACTMHTSxxyyyZ	MTP-LC Duplex Fan-out Cable, 24-Core, Single-Mode OS2 (12 fiber MTP x 2)
ACTMHTLT2xxyyyZ	MTP-LC Duplex Fan-out Cable, 12-Core, Multi-Mode OM3
ACTMHTT2TxxyyyZ	MTP-LC Duplex Fan-out Cable, 24-Core, Multi-Mode OM3 (12 fiber MTP x 2)
ACTMHMLGxxyyyZ	MTP-LC Duplex Fan-out Cable, 12-Core, Multi-Mode OM4
ACTMHMTGxxyyyZ	MTP-LC Duplex Fan-out Cable, 24-Core, Multi-Mode OM4

where **xx** denotes fibre Sheath: FP - OFNP, LS - LSZH **yyyy** denotes length: 5 to 10m with separator of 0.5m (e.g. 0135 - 13.5m)
Z denotes polarity: (S:straight through, R:Reversed, F:Pair Flipped)

Actassi 10G Copper Solution

10G Cat6A F/UTP 4-Pair LAN Cables

Actassi 10G Cat6A F/UTP 4-Pair Cable is a high quality product delivering excellent network performance when using in conjunction with other Actassi 10G products. The Cat6A F/UTP cable consists of 4 pairs of solid insulated copper 23 AWG. It is designed for use in horizontal cabling situations and applied in 305m (1,000ft) plastic reel. The cable provides a significant margin above the Category 6A Alien Crosstalk (ANEXT) requirement of TIA/EIA 568-C.2 Category 6A and ISO/IEC 11801 Class Ea.



PHYSICAL SPECIFICATIONS

Rated Temperature (°C)	75
Application	Horizontal Wiring in LAN
Reference Standards	TIA/EIA 568-C.2 & ISO/IEC 11801 Class Ea

CONSTRUCTION

Conductor	Solid Bare Copper
AWG	23
Conductor Dia. Nom. (mm)	0.565
Insulation	HD PE
Average Thickness (mm)	0.27
Insulation Dia. (+/-0.05mm)	1.15
Twisting Lay Length (mm)	30 underneath
Cabling lay Length (mm)	200 underneath
Filler	PE
Shield	Polyester Tape
Drain Wire	Stranded Tinned copper (7/0.15mm)
Shield	Aluminium/Polyester
Jacket	PVC or LSZH
Average Thickness	0.5
Outer Dia. (+/-0.2mm)	7.3

MECHANICAL CHARACTERISTICS

Test Object	Jacket
Before Tensile strength (Kg/mm ²)	≥ 1.05
Aging Elongation (%)	≥ 100
Aging Condition Kg/mm ² (°C x hrs)	100 x 240
After Tensile Strength (Kg/mm ² pt)	≥ 85% of unaged
Aging Elongation (%)	≥ 50% of unaged
Cold Bend (-20 +/- 2°C x 4hrs)	No crack

ELECTRICAL CHARACTERISTICS

1.0-100.0MHz Input Impedance (Ohms)	100 ± 15
100-250MHz Input Impedance (Ohms)	100 ± 22
1.0-250.0MHz Delay Skew (ns/100m)	≤ 45
Pair-to-Ground Capacitance Unbalance (pf/100m)	≤ 330
Max. Conductor DC Resistance 20°C (Ohms/Km)	72
Resistance Unbalance (%)	≤ 5

PRODUCT FEATURES

- Complies with TIA/EIA-568-C.2 Category 6A and ISO/IEC 11801Class Ea Standards
- Centre filler to maintain pair twisting and optimum NEXT and ELFEXT performance
- Aluminium foil to eliminate ANEXT across cables
- 23 AWG conductors for improved Insertion Loss performance

CUSTOMER BENEFITS

- Aluminium foil helps to optimum Alien Crosstalk performance
- Exceeds TIA/EIA-568-C.2 Category 6A and ISO/IEC 11801 Class Ea requirements
- Support 10G Base-T, 1000 Base-T and 1000 Base-TX LANs and broadband video applications

10G Cat6A F/UTP 4-Pair LAN Cables

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB/100m)	PSNEXT (dB/100m)	ACRF (dB/100m)	PSACRF (dB/100m)	RL (dB/100m)	DELAY (ns/100m)	PSANEXT (dB/100m)	PSAACRF (dB/100m)
1	2.1	76.3	74.3	69.8	66.8	21	570	67	67
4	3.8	67.3	65.3	57.8	54.8	24	552	67	66.2
8	5.3	62.8	60.8	51.7	48.7	25.5	546.7	67	60.1
10	5.9	61.3	59.3	49.8	46.8	26	545.4	67	58.2
16	7.5	58.2	56.2	45.7	42.7	26	543	67	54.1
20	8.4	56.8	54.8	43.8	40.8	26	542	67	52.2
25	9.4	55.3	53.3	41.8	38.8	25.3	541.2	67	50.2
31.25	10.5	53.9	51.9	39.9	36.9	24.6	540.4	67	48.3
62.5	15	49.4	47.4	33.9	30.9	22.5	538.6	65.6	42.3
100	19.1	46.3	44.3	29.8	26.8	21.1	537.6	62.5	38.2
200	27.6	41.8	39.8	23.8	20.8	19	536.5	58	32.2
250	31.1	40.3	38.3	21.8	18.8	18.3	536.3	56.5	30.2
300	34.3	39.1	37.1	20.3	17.3	17.8	536.1	55.3	28.7
400	40.1	37.3	35.3	17.8	14.8	16.9	535.8	53.5	26.2
500	45.3	35.8	33.8	15.8	12.8	16.2	535.6	52	24.2

DIMENSIONS

Shipping Reel	400mm(W) x 215mm(H)
Shipping Weight	17kg

CATALOGUE NUMBER	DESCRIPTION
ACTTG4P6ASCM3RBU	Category 6A F/UTP Cable, CM, 4 Pair, 305M Reel, Blue
ACTTG4P6ASCR3RBU	Category 6A F/UTP Cable, CMR, 4 Pair, 305M Reel, Blue
ACTTG4P6ASLS3RWE	Category 6A F/UTP Cable, LSZH, 4 Pair, 305M Reel, White

10G Cat6A U/UTP 4-Pair LAN Cables

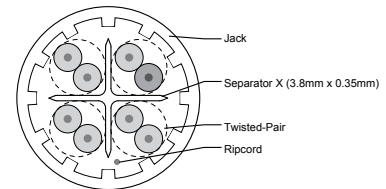
Actassi 10G Cat6A U/UTP 4-Pair LAN Cable is a high quality product delivering excellent network performance when using in conjunction with other Actassi 10G products.

The Cat6A U/UTP cable consists of 4 pairs of solid insulated copper 23 AWG (0.59mm). It is designed for use in horizontal cabling situations and applied in 305m (1,000ft) reel.

The Cat6A U/UTP cable provides a significant margin above the Category 6A Alien Crosstalk (ANEXT) requirement of TIA/EIA 568-C.2 Category 6A and ISO/IEC 11801 Class Ea.



ACTTG4P6AUCM3RBU



PHYSICAL SPECIFICATIONS

Rated Temperature (°C)	75
Application	Horizontal Wiring in LAN
Reference Standards	TIA/EIA 568-C.2 & ISO/IEC 11801, IEC61156-5

CONSTRUCTION

Conductor	Solid Bare Copper
AWG	23
Conductor Dia. Nom. (mm)	0.59
Insulation	HD PE
Average Thickness (mm)	0.27
Insulation Dia. (+/-0.05mm)	1.15
Filler	PE
Jacket	PVC or LSZH
Average Thickness	0.65
Outer Dia. (+/-0.2mm)	8.5

MECHANICAL CHARACTERISTICS

Test Object	Jacket
Before Tensile strength (Kg/mm ²)	≥ 1.05
Aging Elongation (%)	≥ 100
Aging Condition Kg/mm ² (°C x hrs)	100 x 240
After Tensile Strength (Kg/mm ² pt)	≥ 85% of unaged
Aging Elongation (%)	≥ 50% of unaged
Cold Bend (-20 +/- 2°C x 4hrs)	No crack

ELECTRICAL CHARACTERISTICS

1.0-100.0MHz Input Impedance (Ohms)	100 ± 15
1.0-500.0MHz Delay Skew (ns/100m)	≤ 45
Pair-to-Ground Capacitance Unbalance (pf/100m)	≤ 330
Max. Conductor DC Resistance 20°C (Ohms/Km)	72
Resistance Unbalance (%)	≤ 5

PRODUCT FEATURES

- Complies with TIA/EIA-568-C.2 Category 6A and ISO/IEC 11801 Class Ea Standards
- Centre filler to maintain pair twisting and optimum NEXT and ELFEXT performance
- 23 AWG conductors for improved Insertion Loss performance
- Newly design Jacket to optimize the ANEXT performance

CUSTOMER BENEFITS

- Exceeds TIA/EIA-568-C.2 Category 6A and ISO/IEC 11801 Class Ea requirements
- Support 10G Base-T, 1000 Base-T and 1000 Base-TX LANs and broadband video applications

10G Cat6A U/UTP 4-Pair LAN Cables

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB/100m)	PSNEXT (dB/100m)	ACRF (dB/100m)	PSACRF (dB/100m)	RL (dB/100m)	DELAY (ns/100m)	PSANEXT (dB/100m)	PSAACRF (dB/100m)
1	2.1	76.3	74.3	69.8	66.8	21	570	67	67
4	3.8	67.3	65.3	57.8	54.8	24	552	67	66.2
8	5.3	62.8	60.8	51.7	48.7	25.5	546.7	67	60.1
10	5.9	61.3	59.3	49.8	46.8	26	545.4	67	58.2
16	7.5	58.2	56.2	45.7	42.7	26	543	67	54.1
20	8.4	56.8	54.8	43.8	40.8	26	542	67	52.2
25	9.4	55.3	53.3	41.8	38.8	25.3	541.2	67	50.2
31.25	10.5	53.9	51.9	39.9	36.9	24.6	540.4	67	48.3
62.5	15	49.4	47.4	33.9	30.9	22.5	538.6	65.6	42.3
100	19.1	46.3	44.3	29.8	26.8	21.1	537.6	62.5	38.2
200	27.6	41.8	39.8	23.8	20.8	19	536.5	58	32.2
250	31.1	40.3	38.3	21.8	18.8	18.3	536.3	56.5	30.2
300	34.3	39.1	37.1	20.3	17.3	17.8	536.1	55.3	28.7
400	40.1	37.3	35.3	17.8	14.8	16.9	535.8	53.5	26.2
500	45.3	35.8	33.8	15.8	12.8	16.2	535.6	52	24.2

CATALOGUE NUMBER DESCRIPTION
ACTTG4P6AUCM3RBU Category 6A U/UTP Cable, CM, 4 Pair, 305M Reel, Blue

ACTTG4P6AUCR3RBU Category 6A U/UTP Cable, CMR, 4 Pair, 305M Reel, Blue

ACTTG4P6AULS3RWE Category 6A U/UTP Cable, LSZH, 4 Pair, 305M Reel, White®

10G Cat6A Shielded 24-Port Patch Panel



ACTPP6ATGS24NSS

The Actassi 10G Cat6A Shielded 24-Ports Patch Panel is fully loaded with Category 6A Shielded Keystone Modular Jacks. Panel is of a metal frame construction with ABS fascia, bracket and bundle with a rear cable management bar. The panel is powder coated for protection against scratches and rust. The rear cable management bar will ensure a neat cable installation and as well as strain relief.

TRANSMISSION PERFORMANCE

Meet 10G Channel performance requirements specified in TIA/EIA-568-C-2, Category 6A and ISO/IEC Class Ea

ENVIRONMENTAL CONDITIONS

Temperature Range

Storage	-20 to +60° C
Operational	-10 to +50° C
Relative Humidity (Operational)	Maximum Non-condensing 93%

ELECTRICAL CHARACTERISTICS

Modular Connector

Electrical Insulation Resistance	10 Mega ohms Minimum
Dielectric Withstanding Voltage	1,000V RMS at 60HZ for 1 Minute
Contact Resistance	20 Milliohms Maximum
Current Ratings	1.5 AMPS at 20° C

MECHANICAL CHARACTERISTICS

Modular Connector

Total Mating Force	800 Grams for a 8 Wire Leads Minimum
Retention	30 Lbs Min between the Jack and Plug
Insertion/Extraction Life	750 Cycles Minimum
Number of IDC Termination	200 Minimum

DIMENSIONS

Shipping Box	510mm(L) x 80mm(H) x 135mm(D)
Shipping Weight	1.5kg

PRODUCT FEATURES

- Category 6A Fully Shielded Keystone Modular Jacks
- Universal colour-coding for 568A and 568B standards
- Front labelling system
- Removable rear cable management bar is bundled with Velcro tapes
- Compatible with standard 19" equipment racks
- Fully compliant ISO/IEC 11801 Edition 2 2002 and ANSI/TIA/EIA-568-C Series Connecting Hardware Standards

CUSTOMER BENEFITS

- Modular jacks are individually removable and replaceable
- Complete kit with all mounting and cable fixing hardware
- Label holders for easy labelling and identification
- Cable management bar provides neat installation and strain relief
- Compliance with international standards gives the customer peace of mind that their network will perform to link, channel and application requirements

CATALOGUE NUMBER	DESCRIPTION
ACTPP6ATGS24NSS	10G Cat.6A Shielded 24-port Patch Panel, loaded
ACTPPS24NSU	10G Cat.6A Shielded 24-port Patch Panel, unloaded*
ACTPPAS24NS	10G Cat.6A Shielded 24-port Angle Patch Panel, unloaded

**Remarks: ACTPPS24NSU can be used on Cat6 Shielded and Cat5e FTP keystone jacks*

10G Cat6A Unshielded 24-Port Patch Panel



ACTPP6ATGU24NSS

The Actassi 10G Cat6A Unshielded 24-Ports Patch Panel is fully loaded with Category 6A Keystone Modular Jacks. Panel is of a metal frame construction with ABS fascia, bracket and bundle with a rear cable management bar. The panel is powder coated for protection against scratches and rust. The rear cable management bar will ensure a neat cable installation as well as strain relief.

TRANSMISSION PERFORMANCE

Meet 10G Channel performance requirements specified in TIA/EIA-568-C-2 Category 6A and ISO/IEC Class Ea

ENVIRONMENTAL CONDITIONS

Temperature Range

Storage	-20 to +60° C
Operational	-10 to +50° C
Relative Humidity (Operational)	Maximum Non-condensing 93%

ELECTRICAL CHARACTERISTICS

Modular Connector

Electrical Insulation Resistance	10 Mega ohms Minimum
Dielectric Withstanding Voltage	1,000V RMS at 60HZ for 1 Minute
Contact Resistance	20 Milliohms Maximum
Current Ratings	1.5 AMPS at 20° C

MECHANICAL CHARACTERISTICS

Modular Connector

Total Mating Force	800 Grams for a 8 Wire Leads Minimum
Retention	30 Lbs Min between the Jack and Plug
Insertion/Extraction Life	750 Cycles Minimum
Number of IDC Termination	200 Minimum

PRODUCT FEATURES

- Universal color-coding for 568A and 568B standards
- Front labeling system
- Removable rear cable management bar is bundled with Velcro tapes
- Compatible with standard 19" equipment racks
- Fully compliant ISO/IEC11801 Edition 2002 and ANSI/TIA/EIA-568-C Series Connecting Hardware Standards

CUSTOMER BENEFITS

- Modular jacks are individually removable and replaceable
- Complete kit with all mounting and cable fixing hardware
- Label holders for easy labeling and identification
- Cable management bar provides neat installation and strain relief
- Adaptable with international standards and easy to use

CATALOGUE NUMBER	DESCRIPTION
ACTPP6ATGU24NSS	10G Cat.6A Unshielded 24-port Patch Panel, Non-Shutter
ACTPP6ATGU24SHS	10G Cat.6A Unshielded 24-port Patch Panel, Shutter

10G Cat6A S/FTP Patch Cord

The Actassi 10G Cat6A S/FTP Patch Cord is a high quality product delivering excellent network performance when using in conjunction with other Actassi 10G products. The Patch Cord is constructed of high grade cable and quality RJ45 plugs, and is designed to operate up to 500MHz. This enables it to operate successfully in a 10G environment. The RJ45 plugs are shielded with brass alloy. The assembly boot ensures excellent strain relief and together with the insert, ensures that performance is stable when using the Patch Cord. Patch Cords are available in Blue, Grey & White colours, with matching boots to help with circuit identification in cabinet/rack.



ACTPTG6Axyy10zz

PHYSICAL SPECIFICATIONS

Rated Temperature (°C)	75
Application	Horizontal Wiring in LAN
Reference Standards	TIA/EIA 568B.2-10 & ISO/IEC 11801 Class Ea

MECHANICAL CHARACTERISTICS

AWG	26
Pair Count	4-Pair Individually Colour with Filler and PVC or LSZH Jacke
Sequence	Wiring Sequence 568A/B
Retention	50N for 60s±5s
Durability	750 Mating Cycles Min.
Plug Housing	Polycarbonate, UL94V-0
Plug Blades	Nickel with 50u" Gold-plated

ELECTRICAL CHARACTERISTICS

Dielectric Withstanding Voltage	1000V AC/DC Peak, Contact to Contact
	81500V AC/DC Peak, Contact to Teat Panel
Insulation Resistance	500mΩ Minimum @ 100V D.C
Contact Resistance	20mΩ Maximum
Current Rating	2.1A Maximum

PACKAGING

Shipping Pack	Individual PE Bag
Shipping Weight	Depends on Lengths

PRODUCT FEATURES

- Meet 10G channel performance requirements specified in TIA/EIA-568-C.2-10 Category 6A and ISO/IEC 11801 Class Ea
- UL CM fire rated or LSZH jacketing
- PE insulation on conductors
- Plug assembly is compatible with FCC Part 68-F

CUSTOMER BENEFITS

- Support 10G network transmission
- Available in various lengths to assist with better cable management
- Assembly boot not only ensures pair integrity but also provides an enhanced strain relief, especially during installations or moves

CATALOGUE NUMBER	DESCRIPTION
ACTPTG6ASxyy10zz	Category 6A S/FTP Patch Cord, 1.0M
ACTPTG6ASxyy20zz	Category 6A S/FTP Patch Cord, 2.0M
ACTPTG6ASxyy30zz	Category 6A S/FTP Patch Cord, 3.0M
ACTPTG6ASxyy50zz	Category 6A S/FTP Patch Cord, 5.0M
Where x denotes wiring sequence	: A - 568A, B - 568B
yy denotes Jacket material	: CM - PVC, LS - LSZH
zz denotes colour	: GY - Grey, BU - Blue, WE - White

10G Cat6A Fully Shielded Modular Jack

The Actassi 10G Cat6A Fully Shielded Modular Jack is a Keystone information outlet which is developed primarily for use of high speed 10G LAN applications. The newly designed toolless modular jack provides no punch down tool for termination. Fully shielded jack eliminates Alien Crosstalk (ANEXT) and delivers the best network performance when used in conjunction with other Actassi 10G products.



ACTRJSMTG6ANSS



ACTRJSMA6ANSSP

TRANSMISSION PERFORMANCE

Meet 10G Channel performance requirements specified in TIA/EIA-568-C.2-10 Category 6A and ISO/IEC 11801 Class Ea

PHYSICAL SPECIFICATIONS

Housing	Zinc-alloy fully shielded
Spring Wire	Phosphor Bronze Alloy Plated with 50µ" of Gold over 70~100 µ" of Nickel
IDC	Phosphor Bronze Alloy with 100 µ" Tin, Planted with 100% Tin Mistiness

ELECTRICAL CHARACTERISTICS

Insulation Resistance	500MΩ Min. @ 100V DC
Dielectric Withstanding Voltage	1000V DC/AC @ 60Hz for 1 minute
Spring Wire Contact Resistance	20mΩ Max.
IDC Contact Resistance	2.5mΩ Max.

MECHANICAL CHARACTERISTICS

Total Mating Force	800g for a 8 Wire Leads Min.
Retention	50N (11 Lbs) for 60s±5s
Insertion/Extraction Life	750 Cycles Minimum
IDC Wire Gauge	22~24 AWG

ENVIRONMENTAL CONDITIONS

Temperature Range	- 40 to 70 °C
Operation	- 10 to 60 °C
Relative Humidity (Operational)	Max. Non-condensing 93%

PACKAGING

Shipping Pack	Individual PE Bag
Shipping Weight	35g

PRODUCT FEATURES

- Complies with TIA/EIA-568-C.2-10 Category 6A and ISO/IEC 11801Class Ea Standards
- Newly design Toolless termination
- Zinc-alloy fully shielded
- Accepts solid or stranded 22-24AWG conductors
- Universal colour coding for 568A and 568B

CUSTOMER BENEFITS

- Termination without punch-down tool
- Fully shielded eliminating ANEXT
- Compatible with Keystone wall plates

CATALOGUE NUMBER	DESCRIPTION
ACTRJSMTG6ANSS	Category 6A Shielded Modular Jack, Non-Shutter
ACTRJSMTG6ANSSP	Category 6A Shielded Modular Jack, Non-Shutter, Panel Version
ACTRJSMA6ANSSP	Category 6A Shielded Angled Modular Jack, Non-Shutter

10G Cat6A Unshielded Modular Jack

The Actassi range of Category 6A unshielded modular jacks is the next generation of data communications solutions.

These modular jacks are colour-coded for both 568A and 568B standards and can be terminated using a Schneider Electric punch down impact or Krone tool.

Clear wire retaining caps are supplied and can be used to provide additional cable strain relief.

Combined with other Actassi Products, they are the perfect solution to your voice and data communications needs.



VDIB1775XUWE

ELECTRICAL CHARACTERISTICS

Dielectric Strength	1,000V RMS at 60Hz for 1 minute
Current Rating	1.5Amp maximum
Insulation Resistance	200mΩ Max.
Contact Resistance	1mΩ per contact
Temperature Range	-40°C to +70°C
Transmission Performance	ANSI/TIA/EIA-568-C,ISO/IEC 11801 Class E AS/NZS 3080:2003 Class E

MECHANICAL CHARACTERISTICS

Modular Connector

RJ45 8-Pin Connector	FCC part 68, Subpart F and IEC-60603-7 compliant
Durability	1,000 mating cycles min.
Material	Phosphor bronze with 50 micro-inches of gold over 100 micro-inches nickel plating

Modular Connector

IDC Connector	Insulation slicing of 22 to 24AWG (0.64mm to 0.41mm)
Insulation Diameter (Wire)	0.70mm - 1.40mm
Connector Material	Phosphor bronze with nickel plating

PRODUCT FEATURES

- Complies with TIA/EIA-568-C.2-10 Category 6A and ISO/IEC 11801 Class Ea Standards
- Aesthetic, contemporary design.
- Patented flush-faced, zero footprint shutter mechanism.
- Accepts solid or stranded 22-24AWG conductors
- Universal color coding for 568A and 568B
- Flexible locking tabs (30-Mech connectors).
- UL 94V-0 rated.

CUSTOMER BENEFITS

- Shutter mechanism is easy to operate, simply insert the plug lead into the jack.
- Protection from dust ingress, insect infestation and the insertion of foreign objects.
- Various color for easier circuit identification.

CATALOGUE NUMBER	DESCRIPTION
Cat6A 30 Mech	
VDIB1775XUxx	Category 6A Unshielded Modular Jack, 30 Mech, Non-Shutter
VDIB1773XUxx	Category 6A Unshielded Modular Jack, 30 Mech, Shutter
Cat6A Keystone	
VDIB1776XUxx	Category 6A Unshielded Modular Jack, Non-Shutter
VDIB1774XUxx	Category 6A Unshielded Modular Jack, Shutter
Where xx denotes color: BK = black, BU = blue, GR = green, RD = red, SG = soft grey, WE = white, YL = yellow	

Actassi “Tough” Cabling

F² Category 6 U/UTP Cables

Actassi F² Category 6 U/UTP Cable is a superior product designed for use in horizontal cabling, delivering the best network performance when used in conjunction with other Actassi products.

The Actassi F² cable consists of 4 pairs of solid and insulated copper 23 AWG (0.58mm) and comes in a 305m reel. The patent pending F² Construction separator has features of both firm and flexibility, a superior design for heavy strain relief.

The Actassi F² Category 6 U/UTP cable provides a significant margin above the minimum Category 6 NEXT requirement of TIA/EIA 568C.2 and ISO/IEC 11801.

TECHNICAL INFORMATION

Physical Specifications	
Rated Temperature	75°C
Product Standard Certification	UL
Flammability Test	CM
Application	Horizontal Wiring in LAN
Reference Standard	TIA/EIA 568C.2 & ISO/IEC 11801, IEC61156-5

CONSTRUCTION

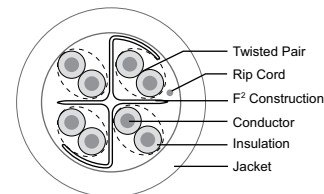
Conductor	Solid Bare Copper
AWG	23
Conductor Dia. Nom. (mm)	1/0.58
Insulation	PE
Average Thickness (mm)	0.22
Insulation Dia. (±0.05mm)	1.03
Separator	F ² construction (PE)
Jacket	PVC
Nom. Thickness (mm)	0.63
Min. Point Thickness (mm)	0.40
Outer Diameter (±0.2mm)	6.50
Rip Cord	YES

MECHANICAL CHARACTERISTICS

Test Object	Jacket
Test Material	PVC
Before Tensile Strength (Mpa)	≥13.8
Aging Elongation (%)	≥100
Aging Condition (°C x hrs)	100 x 240
After Tensile Strength (Mpa)	≥85% of unaged
Aging Elongation (%)	≥50% of unaged
Cold Bend (-20 ± 2°C x 4hrs)	No crack



2D4P6T2PS3RBU



PRODUCT FEATURES

- Patent-pending design F² Construction separator form virtual shielded compartments to ensure all four pairs of wires are being properly partitioned off and in good separation for optimum NEXT performance
- The nonmetallic will not introduce additional electrical ground issue
- 23 AWG conductors for improved Insertion Loss performance
- Fully compliant to TIA/EIA 568C Category 6 and ISO/IEC 11801 Class E Standards
- UL Listed CM Fire rated

CUSTOMER BENEFITS

- Improvement in return loss, maximizing cable balance and minimizing echo to enhance overall channel performance
- Provide superior headroom for most robust network & applications e.g. Gigabit Ethernet, broadband video, 3D imaging and other multimedia applications
- Minimize additional workload for cable installation, termination, and re-work
- Longer product life and higher product reliability

CATALOGUE NUMBER	DESCRIPTION
2D4P6T2PS3RBU	F ² Category 6 U/UTP Cable, CM, 305M Reel, Blue
2D4P6T2PS3RGY	F ² Category 6 U/UTP Cable, CM, 305M Reel, Grey

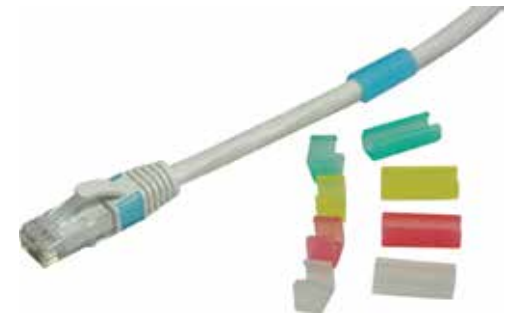
ID-3™ F² U/UTP Patch Cord

Actassi ID-3™ F² Patch Cord is a superior Category 6 product delivering excellent network performance when used in conjunction with other Actassi products.

The ID-3™ F² Patch Cord is constructed with the patent pending F² Construction stranded cable and high quality RJ45 plugs, and is designed to operate up to 300MHz. The product can operate successfully in a Category 6 environment with a higher margin in performance.

The RJ45 plugs are provided with an over mould boot to ensure pair integrity. The over mould boot ensures excellent strain relief and together with the insert, ensures that performance is stable when using the Patch Cord.

Patch Cords are equipped with explicit ID-3™ labeling identification, with changeable channel caps and ring to help with circuit identification in cabinet/rack.



RJ6T2/10PL

PHYSICAL SPECIFICATIONS

Rated Temperature (°C)	75
Product Standard Certification	UL
Flammability Test	CM
Application	Horizontal wiring in LAN
Reference Standard	TIA/EIA 568C.2 & ISO/IEC 11801

ELECTRICAL CHARACTERISTICS

Dielectric	100V RMS at 60Hz for 1 minute
Voltage Rating	150Vac maximum
Current Rating	1.5A maximum
Insulation	500mΩ minimum
Contact Resistance	10mΩ maximum

MECHANICAL CHARACTERISTICS

AWG	24
Pair Count	4-pair with F² Construction and PVC jacket
Sequence	Wiring sequence 568A/B
Durability	1,000 mating cycles
RJ45 Plug	Polycarbonate, UL94V-2
Plug Contact	Copper alloy with 50µ" gold-plated

PRODUCT FEATURES

- Explicit ID-3™ labeling identification
- Equipped with 5 sets of changeable coloured channel caps and rings, up to 36 combinations
- Constructed of stranded Cat 6 cable equipped with F² Construction separator
- Fully mould boot and RJ45 plugs
- UL Listed CM fire rated
- Fully compliant to TIA/EIA 568C.2-1 Category 6 and ISO/IEC 11801 Class E Standards

CUSTOMER BENEFITS

- F² construction cable provides better performance in RL and NEXT
- Allow distinguish colour and numbering identifications
- Available in various lengths to assist with better cable management
- Fully moulded RJ45 plugs not only ensures pair integrity but also provides an enhanced strain relief, especially during installations or moves
- Money saving for keeping single color of patch cords
- Ease to install and flexible for connection
- Time saving for maintenance
- Tractability for critical services

* Transmission Performance based on 105m

CATALOGUE NUMBER	DESCRIPTION	CATALOGUE NUMBER	DESCRIPTION
RJ6T2/10PL	Actassi ID-3™ Patch Cord, Category 6, UTP, 1M	RJ6T2/30PL	Actassi ID-3™ Patch Cord, Category 6, UTP, 3M
RJ6T2/20PL	Actassi ID-3™ Patch Cord, Category 6, UTP, 2M	RJ6T2/50PL	Actassi ID-3™ Patch Cord, Category 6, UTP, 5M

ID-3™ F² Cat6 U/UTP Secure Patch Cord

The Actassi ID-3™ F² Cat.6 UTP Secure Patch Cord is comprised of two parts: Unlock key and secure patch cord itself.

The Secure Patch Cord deters unintended or unauthorized disconnection of the cord. The Patch Cord requires special unlock key for removal, but it can be freely inserted into an outlet to secure the connection. M type color clips are used on the RJ45 connectors of the secure patch cord. The Patch Cords are easy to be recognized.

The Secure Patch Cord is compatible with Schneider Electric Actassi UTP RJ45 outlets and can be used in a variety of applications to protect mission critical networks such as data centres, finance, health care environments and government IT systems.

Remarks: It is not recommended to apply the secure patch cord with laptops and shuttered wall-plates



ACTPCC6UBCM1E20WE

ELECTRICAL CHARACTERISTICS

Dielectric Withstanding Voltage	1000V DC / AC Peak, Contact to Contact 1500V DC / AC Peak, Contact to Test Panel
Insulation	500MΩ Minimum @ 100V D.C
Contact Resistance	20mΩ Maximum
Current Rating	2.1A Maximum

MECHANICAL CHARACTERISTICS

AWG	24
Pair Count	4-Pair Individually Color with Filler and PVC Jacket
Sequence	Wiring Sequence 568B
Plug Housing	Polycarbonate, UL94V-0
Plug Blades	Copper alloy with 50μ Gold-plated
Retention	50N (11lbf) for 60s ± 5s
Insertion/Extraction Life	750 Cycles Minimum
Tensile Strength	≥20N per Wire ≥70N cable to plug

ENVIRONMENTAL CHARACTERISTICS

Temperature Range	
Storage	- 40 °C to 70 °C
Operation	- 10 °C to 60 °C
Relative Humidity (Operational)	Max. Non-condensing 93%

STANDARDS TEST AND CERTIFICATION

- Channel performance verified to TIA/EIA-568-C.2-1:2002, Category 6
- CM grade – comply with the UL flame exposure described in UL 1685
- RoHS compliant according to European directive 2002/95/EC

CUSTOMER BENEFITS

- Prevent loss caused by unauthorized plug-out situation in data critical environments, e.g. data centres, medical care, transportation
- Allow distinguish color and numbering identifications
- Available in various lengths to assist with better cable management.
- Fully moulded RJ45 plugs not only ensures pair integrity, but also provides an enhanced strain relief, especially during installations or moves
- Money saving for keeping single color of patch cords

CATALOGUE NUMBER	DESCRIPTION
ACTPCC6UBCM1E10WE	Actassi ID-3™ 1-end Secure Patch Cord, Cat.6 UTP, 1m, CM
ACTPCC6UBCM1E20WE	Actassi ID-3™ 1-end Secure Patch Cord, Cat.6 UTP, 2m, CM
ACTPCC6UBCM1E30WE	Actassi ID-3™ 1-end Secure Patch Cord, Cat.6 UTP, 3m, CM
ACTPCC6UBCM1E50WE	Actassi ID-3™ 1-end Secure Patch Cord, Cat.6 UTP, 5m, CM
ACTPCC6UBCM2E10WE	Actassi ID-3™ 2-end Secure Patch Cord, Cat.6 UTP, 1m, CM
ACTPCC6UBCM2E20WE	Actassi ID-3™ 2-end Secure Patch Cord, Cat.6 UTP, 2m, CM
ACTPCC6UBCM2E30WE	Actassi ID-3™ 2-end Secure Patch Cord, Cat.6 UTP, 3m, CM
ACTPCC6UBCM2E50WE	Actassi ID-3™ 2-end Secure Patch Cord, Cat.6 UTP, 5m, CM

Actassi Smart Patching Solution

ID-Tracer™ 3



ACTPP6ATGS24NSL

The Actassi Smart Labelling Solution consists of Actassi Patch Panel, ID-Tracer™ Control Software, and LAN Controller. It is an intelligent Category 6 and Category 6A system with real-time remote Labelling.

The Actassi ID-Tracer™ 3 is an intelligent Category 6 Patch Panel with built-in connectivity monitoring to report and monitor the online connectivity status of the entire cabling network. Network administrators are able to manage overall network activities such as Move, Add or Change (MAC) in an easy manner. Customers are able to plan and optimize their network resources while dealing with various Cabling requirements. The Actassi Copper Patch Panels are scalable by as few as 24-ports (single panel version). LAN version is also available by matching one Actassi LAN Controller per group of maximum 10 Actassi Copper Patch Panels.

TRANSMISSION PERFORMANCE

Meets and exceeds both TIA/EIA-568-C.2 Category 6 and ISO/IEC Class E specifications

PHYSICAL SPECIFICATIONS

Temperature Range	
Storage	-20° C to 65° C
Operational	0° C to 55° C
Relative Humidity	60%

ELECTRICAL CHARACTERISTICS

Modular Connector	
Electrical Insulation Resistance	10 Mega ohms Minimum
Dielectric Withstanding Voltage	1,000V RMS at 60HZ for 1 Minute
Contact Resistance	20 Milliohms Maximum
Current Ratings	1.5 AMPS at 20° C

MECHANICAL CHARACTERISTICS

Modular Connector	
Total Mating Force	800 Grams for a 8 Wire Leads Minimum
Retention	30 Lbs Min between the Jack and Plug
Insertion/Extraction Life	750 Cycles Minimum
Number of IDC Termination	200 Minimum

PRODUCT FEATURES

- Scalable by as few as 24-ports (one single patch panel)
- Dynamic labeling port ID in scrolling LED up to 5 digits
- Dynamic channel designation by functional icons in 6-colors
- Built-in connectivity monitoring compatible with patch cords of any type and any brand
- Real-time security alert for disconnection and unauthorized patching
- Patch Cords contact-switch mechanism
- Compatible with standard 19" cabinet/rack
- 5 levels of LED luminous intensity
- Automatic sleep mode by preset functions
- Replaceable shielded modular Jack
- Replaceable LED module
- Wake-up button during sleep mode
- Fully comply TIA/EIA-568C and ISO/IEC 11801
- Category 6A standard

CUSTOMER BENEFITS

- Explicit ID labeling and LED indication
- Allow distinguish icon identifications
- Provide connectivity monitoring and security alert
- Login security for authorized personnel
- Real-time record for any MACs for Network administrator
- Energy efficiency and economic

CATALOGUE NUMBER	DESCRIPTION
ACTPP6ATGS24NSL	Actassi ID-Tracer 3 Category 6A Shielded Patch Panel, 24 port
ACTPP6S24NSL	Actassi ID-Tracer 3 Category 6 Shielded Patch Panel, 24 port
ACTPP6U24NSL	Actassi ID-Tracer 3 Category 6 Unshielded Patch Panel, 24 port
ACTPP2LED	Actassi LED module

ID-Tracer™ 2



ACTFM1U224L



ACTFA2L8SMZP

The Actassi Smart Labeling Solution consists of Actassi Fiber Panel, ID-Tracer Control Software and LAN Controller. It is an intelligent optical system with real-time remote labeling.

The Actassi ID-Tracer2 with built-in connectivity monitoring to report and monitor the online connectivity status of the entire cabling network. Network administrators are able to manage overall network activities such as Move, Add or Change (MAC) in an easy manner. Customers are able to plan and optimize their network resources while dealing with various Cabling requirements. The Actassi Fiber Patch Panels are scalable by as few as 24-ports (single panel version). LAN version is also available by matching one Actassi LAN controller per group of maximum 10 Actassi Fiber Patch Panels.

TRANSMISSION PERFORMANCE

Meets and exceeds TIA/EIA-568-C.3

TECHNICAL SPECIFICATIONS

Material	Powder Coated Mild Steel
Accommodataion	Up to 24 x SC Connectors Up to 24 x LC Connectors

PRODUCT FEATURES

- Accommodates up to 3 connector module (SC/LC)
- 1U panel and 19" front rack mounting enclosure provides patching and fiber slack storage capability or standard tube interfacing
- Accommodates both Single-mode and Multi-mode fiber
- Splice tray mounted to the unit
- Front Wake-up button to wake up the panel during sleep mode

CUSTOMER BENEFITS

- Explicit ID labeling and LED indication
- Allow distinguish icon identifications
- Provide connectivity monitoring and security alert
- Login security for authorized personnel
- Real-time record for any MACs for Network administrator
- Energy efficiency and economic

CATALOGUE NUMBER	DESCRIPTION
ACTFM1U224L	1U, 24-Port, Led Fiber Enclosure, Sliding, Unloaded
ACTFA2L8SMZP	8-Port, LC Duplex Module, SM
ACTFA2C8SMZP	8-Port, SC Duplex Module, SM
ACTFA2L8MMZP	8-Port, LC Duplex Module, MM
ACTFA2C8MMZP	8-Port, SC Duplex Module, MM

ID-Tracer™ LAN Controller



TPFPU10

The Actassi Smart Patching Solution consists of Actassi Patch Panel, ID-Tracer™ Control Software, and LAN Controller. It is an intelligent Category 6 system with real-time remote patching.

Each Actassi LAN Controller is an intelligent product that provides power supply and control management for up to 10 Actassi Patch Panels. It has dynamic LED lights to indicate the power status of the overall Actassi LAN Controller as well as the online status for each connected Actassi Patch Panels.

TRANSMISSION PERFORMANCE

Meets and exceeds both TIA/EIA-568C.2 Category 6 and ISO/IEC Class E specifications

PHYSICAL SPECIFICATIONS

Temperature Range

Storage	-20°C to 65°C
Operational	0°C to 55°C
Relative Humidity	60%

ELECTRICAL CHARACTERISTICS

Input	100-230V AC 50~60Hz
Output	+5V DC 3.5A (per port)

PHYSICAL DIMENSION

Size	268mm x 217mm x 44mm
------	-----------------------------

PRODUCT FEATURES

- Dynamic LED display to indicate power status "on/off"
- Dynamic LED display to indicate panel connectivity status
- Supports up to 10 Actassi patch panels simultaneously
- Compatible with standard 19" cabinet/rack
- Real-time remote patching

CUSTOMER BENEFITS

- Explicit indication of power status and patch panel connection
- Reliable operation life cycle
- Easy network management of large and dynamic networks v

CATALOGUE NUMBER	DESCRIPTION
TPFPU10	Actassi LAN Controller, for up to 10 Panels, without Plug

Actassi Copper Solution

Category 6 F/UTP Cables

Category 6 F/UTP Cable

The Actassi 4-Pair Category 6 Cable is a superior product delivering excellent network performance when used in conjunction with other Actassi Category 6 products.

The Category 6 cable consists of 4 pairs of solid insulated copper 23AWG and is UL listed with a CM fire rating. It is designed for use in horizontal cabling situations and supplied in 305m (1,000ft) easy pull out boxes.

The Category 6 cable provides a significant margin above the minimum Category 6 Near End Crosstalk NEXT requirement of ANSI/TIA/EIA-568 and ISO/IEC 11801.

Category 6 FTP LSZH Cables

The availability of a central filler helps in delivering superior cross-talk isolation and therefore ensures excellent performance. This precision and unique manufacturing process design allows for easy removal, which maximises both performance and termination.

The Actassi Category 6 LSZH 4-Pair Cables are designed to carry high-bandwidth applications, including the IEEE802.3AB 1000 Base-T (Gigabit Ethernet), TIA/EIA 1000 Base-TX, 1.2Gb/s ATM and any future applications designed for Category 6/Class E cabling, as well as analogue broadband video.

Insulated with non-halogen high-density polyethylene and covered with low smoke zero halogen compounds. It is designed for use in horizontal cabling situations where building smoke requirements mandate low smoke and zero halogen installation and supplied in 305m (1,000ft) easy pull out boxes.

The Actassi LSZH Cable is IEC tested for low smoke and non-halogen emission and passes the following tests:

- IEC 60754 part 2, Non-Halogen based on pH and Conductivity Measurements
- IEC 61034 part 2, Smoke Emission
- IEC 60332, Flammability and Fire Retardant

TECHNICAL INFORMATION

Physical Specifications

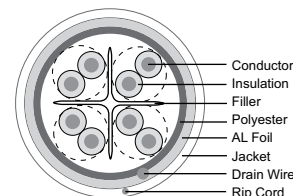
Rated Temperature	75° C
Flammability Test	CM/LSZH
Reference Standard	UL Subject 444, EIA/TIA 568-C.2 & ISO/IEC 11801, IEC61156-5

CONSTRUCTION

Conductor	Solid Bare Copper
AWG	23
Conductor Dia. Nom. (mm)	0.565
Insulation	PE
Average Thickness (mm)	0.27
Min. Point Thickness (mm)	0.24
Insulation Diameter (±0.10mm)	1.15
Twisting Lay Length (mm)	30 underneath
Cabling Lay Length (mm)	200 underneath
Filler	PE
Polyester Binder	YES
Drain Wire	Solid Tinned Copper
AL Foil	YES
Jacket	PVC
Average Thickness (±0.05mm)	0.50
Min. Point Thickness (mm)	0.40
Outer Diameter (±0.2mm)	7.30
Rip Cord	YES



ACT4P6SCM3RBxx
ACT4P6SLS3RBxx



PRODUCT FEATURES

- Foil shielded to provide good level of screen.
- Centre filler to maintain pair twisting and optimum NEXT and ELFEXT performance.
- 23AWG conductors for improved Insertion Loss performance.

CUSTOMER BENEFITS

- Exceeds Category 6 ANSI/TIA/EIA-568-C2-1 and ISO/IEC 11801 Standards.
- Supports Gigabit Ethernet (1000 Base-T and 1000 Base-TX) and beyond.

Category 6 F/UTP Cables

MECHANICAL CHARACTERISTICS

Test Object	Jacket
Test Material	PVC
Before Tensile Strength (Mpa)	≥13.8
Aging Elongation (%)	≥100
Aging Condition (°C x hrs)	100 x 240
After Tensile Strength (Mpa)	≥85% of unaged
Aging Elongation (%)	≥50% of unaged
Cold Bend (-20 ± 2°C x 4hrs)	No crack

ELECTRICAL CHARACTERISTICS

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB/100m)	PSNEXT (dB/100m)	ACRF (dB/100m)	PSACRF (dB/100m)	RL (dB/100m)	DELAY (ns/100m)
1	2.0	74.3	72.3	67.8	64.8	20	570
4	3.8	65.3	63.3	55.8	52.8	23	552
8	5.3	60.8	58.8	49.7	46.7	24.5	546.7
10	6.0	59.3	57.3	47.8	44.8	25	545.4
16	7.6	56.2	54.2	43.7	40.7	25	543
20	8.5	54.8	52.8	41.8	38.8	25	542
25	9.5	53.3	51.3	39.8	36.8	24.3	541.2
31.25	10.7	51.9	49.9	37.9	34.9	23.6	540.4
62.5	15.4	47.4	45.4	31.9	28.9	21.5	538.6
100	19.8	44.3	42.3	27.8	24.8	20.1	537.6
200	29.0	39.8	37.8	21.8	18.8	18	536.5
250	32.8	38.3	36.3	19.8	16.8	17.3	536.3

1.0-100.0MHz Input Impedance (Ohms)	100±6
100-250MHz Input Impedance (Ohms)	100±6
1.0-250.0MHz Delay Skew (ns/100m)	≤45
Pair-to-Ground Capacitance Unbalance (pF/100m)	≤330
Max. Conductor DC Resistance 20°C (Ohms/km)	73.2
Resistance Unbalance (%)	≤5

CATALOGUE NUMBER DESCRIPTION

ACT4P6SCM3RBxx Category 6 4 pair FTP Cable 305m, CM

ACT4P6SLS3RBxx Category 6 4 pair FTP Cable 305m, LSZH

Where **xx** denotes the color of jacket: BU = Blue, WE = White, BK = Black, GY = Grey, GR = Green, RD = Red, YL = Yellow

Note : color other than blue and white is available upon request with additional lead time and MOQ requirement

Category 6 U/UTP Cables

Category 6 UTP PVC Cables

The Actassi 4-Pair Category 6 Cable is a superior product delivering excellent network performance when used in conjunction with other Actassi Category 6 products.

The Category 6 cable consists of 4 pairs of solid insulated copper 23AWG and is UL listed with a CM or CMR fire rating. It is designed for use in horizontal cabling situations and supplied in 305m (1,000ft) easy pull out boxes.

The Category 6 cable provides a significant margin above the minimum Category 6 Near End Crosstalk NEXT requirement of ANSI/TIA/EIA-568 and ISO/IEC 11801.

Category 6 UTP LSZH Cables

The availability of a central filler helps in delivering superior cross-talk isolation and therefore ensures excellent performance. This precision and unique manufacturing process design allows for easy removal, which maximises both performance and termination.

The Actassi Category 6 LSZH 4-Pair Cables are designed to carry high-bandwidth applications, including the IEEE 802.3AB 1000 Base-T (Gigabit Ethernet), TIA/EIA 1000 Base-TX, 1.2Gb/s ATM and any future applications designed for Category 6/Class E cabling, as well as analogue broadband video.

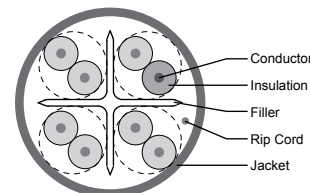
Insulated with non-halogen high-density polyethylene and covered with low smoke zero halogen compounds. It is designed for use in horizontal cabling situations where building smoke requirements mandate low smoke and zero halogen installation and supplied in 305m (1,000ft) easy pull out boxes.

The Actassi LSZH Cable is IEC tested for low smoke and non-halogen emission and passes the following tests:

- IEC 60754 part 2, Non-Halogen based on pH and Conductivity Measurements
- IEC 61034 part 2, Smoke Emission
- IEC 60332, Flammability and Fire Retardant



ACT4P6UCM3RBxx
ACT4P6UCR3RBxx
ACT4P6ULS3RBxx



PRODUCT FEATURES

- Centre filler to maintain pair twisting and optimum NEXT and ELFEXT performance.
- 23AWG conductors for improved Insertion Loss performance.

CUSTOMER BENEFITS

- Exceeds Category 6 ANSI/TIA/EIA-568-C2-1 and ISO/IEC 11801 Standards.
- Supports Gigabit Ethernet (1000 Base-T and 1000 Base-TX) and beyond.

TECHNICAL INFORMATION

Physical Specifications

Rated Temperature	75°C
Flammability Test	CMR, CM, LSZH
Reference Standard	UL Subject 444, EIA/TIA 568-C.2 & ISO/IEC 11801, IEC61156-5

CONSTRUCTION

Conductor	Solid Bare Copper
AWG	23
Conductor Dia. Nom. (mm)	0.565
Insulation	PE
Average Thickness (mm)	0.22
Min. Point Thickness (mm)	0.18
Insulation Diameter (±0.10mm)	1.04
Twisting Lay Length (mm)	30 underneath
Cabling Lay Length (mm)	200 underneath
Filler	PE
Jacket	PVC
Average Thickness (±0.05mm)	0.49
Min. Point Thickness (mm)	0.43
Outer Diameter (±0.2mm)	6.00
Rip Cord	YES

Category 6 U/UTP Cables

ELECTRICAL CHARACTERISTICS

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB/100m)	PSNEXT (dB/100m)	ACRF (dB/100m)	PSACRF (dB/100m)	RL (dB/100m)	DELAY (ns/100m)
1	2.0	77.3	75.3	70.8	67.8	21	570
4	3.8	68.3	66.3	58.8	55.8	24	552
8	5.3	63.8	61.8	52.7	49.7	25.5	546.7
10	6.0	62.3	60.3	50.8	47.8	26	545.4
16	7.6	59.2	57.2	46.7	43.7	26	543
20	8.5	57.8	55.8	44.8	41.8	26	542
25	9.5	56.3	54.3	42.8	39.8	25.3	541.2
31.25	10.7	54.9	52.9	40.9	37.9	24.6	540.4
62.5	15.4	50.4	48.4	34.9	31.9	22.5	538.6
100	19.8	47.3	45.3	30.8	27.8	21.1	537.6
200	29.0	42.8	40.8	24.8	21.8	19	536.5
250	32.8	41.3	33.3	22.8	19.8	18.3	536.3

1.0-100.0MHz Input Impedance (Ohms)	100±6
100-250MHz Input Impedance (Ohms)	100±6
1.0-250.0MHz Delay Skew (ns/100m)	≤45
Pair-to-Ground Capacitance Unbalance (pF/100m)	≤330
Max. Conductor DC Resistance 20°C (Ohms/km)	73.2
Resistance Unbalance (%)	≤5

CATALOGUE NUMBER DESCRIPTION

PVC Cables

ACT4P6UCM3RBxx Category 6 4 pair UTP Cable 305m, CM

ACT4P6UCR3RBxx Category 6 4 pair UTP Cable 305m, CMR

LSZH Cables

ACT4P6ULS3RBxx Category 6 4 pair UTP Cable 305m, LSZH

Where **xx** denotes the color of jacket: BU = Blue, WE = White, BK = Black, GY = Grey, GR = Green, RD = Red, YL = Yellow

Note : color other than blue and white is available upon request with additional lead time and MOQ requirement

Category 5e F/UTP Cables

Category 5e UTP PVC Cables

The Actassi Category 5e 4-Pair Cable consists of 24AWG (0.51mm) solid-copper conductors insulated with high-density polyethylene. The insulated conductors are tightly twisted into pairs and covered with PVC material.

The Actassi Category 5e 4-Pair Cable provides excellent high-speed transmission, is certified to 100MHz and supports applications such as 155Mb/s ATM, 622Mb/s ATM and IEEE 802.3 1000 Base-T (Gigabit Ethernet) standard, using parallel transmission technology. This product is UL listed with a CM fire rating.

Category 5e FTP LSZH Cables

The Actassi Category 5e Low Smoke Zero Halogen (LSZH) 4-Pair Cable consists of 24AWG (0.51mm) solid-copper conductors insulated with high-density polyethylene. The insulated conductors are tightly twisted into pairs and covered with a non-halogen high-density polyethylene jacket made from low smoke zero halogen compounds.

The Actassi Category 5e LSZH 4-Pair Cable provides excellent high-speed transmission, and certified to 155MHz and supports applications such as 155Mb/s ATM, 622Mb/s ATM and IEEE 802.3 1000 Base-T (Gigabit Ethernet) standards, using parallel transmission technology. This product is UL listed with a CM fire rating.

The Actassi Category 5e LSZH 4-Pair Cable is IEC tested for low smoke and non-halogen emission and passes the following tests:

- IEC 60754 part 2, Non-halogen based on pH and Conductivity Measurements
- IEC 61034 part 2, Smoke Emission
- IEC 60332, Flammability and Fire Retardant

PHYSICAL SPECIFICATIONS

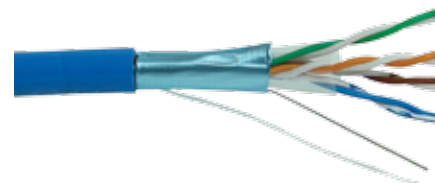
Gauge	24AWG
Jacket Thickness	0.5mm
Weight	42kg/km
Tensile Strength (Mpa)	≥13.8kg
Outside Diameter	5.0mm
Operating Temperature Range	-20°C ~ 60°C
Insulation Thickness	0.25mm

CONSTRUCTION

Conductor	Solid Bare Copper
AWG	24
Conductor Dia. Nom. (mm)	0.51
Insulation	PE
Average Thickness (mm)	0.2
Min. Point Thickness (mm)	0.16
Insulation Diameter (±0.10mm)	0.925
Twisting Lay Length (mm)	30 underneath
Cabling Lay Length (mm)	200 underneath
Jacket	PVC
Average Thickness (±0.05mm)	0.45
Min. Point Thickness (mm)	0.43
Outer Diameter (±0.2mm)	4.8
Rip Cord	YES

ELECTRICAL SPECIFICATIONS

Non. Velocity of Prop. (NVP)	0.69
Max. Conductor Resistance 20°C	9.38 Ohms/100m
Resistance Unbalance %	≤5%
Pair-to-Ground Capacitance Unbalance	≤330pF/100m



ACT4P5ESCR3RBBU

PRODUCT FEATURES

- Compliant with Enhanced Category 5 Standard.
- Wrapped with Aluminum foil as binder.
- PE Insulation of conductors.

CUSTOMER BENEFITS

- Ideal for high-speed networks and broadband distribution in the premise.
- Suits horizontal and vertical wiring.
- Packaged in an easy pull out box.

Category 5e F/UTP Cables

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB/100m)	PSNEXT (dB/100m)	ACRF (dB/100m)	PSACRF (dB/100m)	RL (dB/100m)	DELAY (ns/100m)
1	2.0	65.3	62.3	63.8	60.8	20.0	570.0
4	4.1	56.3	53.5	51.8	48.8	23.0	552.0
8	5.8	51.8	48.8	45.7	42.7	24.5	546.7
10	6.5	50.3	47.3	43.8	40.8	25.0	545.4
16	8.2	47.2	44.2	39.7	36.7	25.0	543.0
20	9.3	45.8	42.8	37.8	34.8	25.0	542.0
25	10.4	44.3	41.3	35.8	32.8	24.3	541.2
31.25	11.7	42.9	39.9	33.9	30.9	23.6	540.4
62.5	17.0	38.4	35.4	27.9	24.9	21.5	538.6
100	22.0	35.3	32.3	23.8	20.8	20.1	537.6

CATALOGUE NUMBER DESCRIPTION
ACT4P5ESCM3RBxx Category 5e, FTP Cable, CM Rated, 305m

ACT4P5ESCR3RBxx Category 5e, FTP Cable, CMR 305m

ACT4P5ESLS3RBxx Category 5e, FTP Cable, LSZH305m

Where xx denotes the color of jacket: BU = Blue, WE = White, BK = Black, GY = Grey, GR = Green, RD = Red, YL = Yellow
Note : color other than blue and white is available upon request with additional lead time and MOQ requirement

Category 5e U/UTP Cables

Category 5e UTP PVC Cables

The Actassi Category 5e 4-Pair Cable consists of 24AWG (0.51mm) solid-copper conductors insulated with high-density polyethylene. The insulated conductors are tightly twisted into pairs and covered with PVC material.

The Actassi Category 5e 4-Pair Cable provides excellent high-speed transmission, is certified to 100MHz and supports applications such as 155Mb/s ATM, 622Mb/s ATM and IEEE 802.3 1000 Base-T (Gigabit Ethernet) standard, using parallel transmission technology. This product is UL listed with a CM or CMR fire rating.

Category 5e UTP LSZH Cables

The Actassi Category 5e Low Smoke Zero Halogen (LSZH) 4-Pair Cable consists of 24AWG (0.51mm) solid-copper conductors insulated with high-density polyethylene. The insulated conductors are tightly twisted into pairs and covered with a non-halogen high-density polyethylene jacket made from low smoke zero halogen compounds.

The Actassi Category 5e LSZH 4-Pair Cable provides excellent high-speed transmission, and certified to 155MHz and supports applications such as 155Mb/s ATM, 622Mb/s ATM and IEEE 802.3 1000 Base-T (Gigabit Ethernet) standards, using parallel transmission technology. This product is UL listed with a CM fire rating.

The Actassi Category 5e LSZH 4-Pair Cable is IEC tested for low smoke and non-halogen emission and passes the following tests:

- IEC 60754 part 2, Non-halogen based on pH and Conductivity Measurements
- IEC 61034 part 2, Smoke Emission
- IEC 60332, Flammability and Fire Retardant

PHYSICAL SPECIFICATIONS

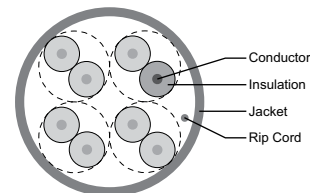
Rated Temperature	75° C
Flammability Test	CMR, CM, LSZH
Reference Standard	UL Subject 444, ANSI/TIA/EIA-568B & ISO/IEC 11801

CONSTRUCTION

Conductor	Solid Bare Copper
AWG	24
Conductor Dia. Nom. (mm)	0.51
Insulation	PE
Average Thickness (mm)	0.2
Min. Point Thickness (mm)	0.16
Insulation Diameter (±0.10mm)	0.925
Twisting Lay Length (mm)	30 underneath
Cabling Lay Length (mm)	200 underneath
Jacket	PVC
Average Thickness (±0.05mm)	0.45
Min. Point Thickness (mm)	0.43
Outer Diameter (±0.2mm)	4.8
Rip Cord	YES



ACT4P5EULS3RBBU



PRODUCT FEATURES

- Compliant with Enhanced Category 5 Standard.

CUSTOMER BENEFITS

- Ideal for high-speed networks and broadband distribution in the premise.
- Suits horizontal and vertical wiring.
- Packaged in an easy pull out box.

Category 5e U/UTP Cables

ELECTRICAL CHARACTERISTICS

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB/100m)	PSNEXT (dB/100m)	ACRF (dB/100m)	PSACRF (dB/100m)	RL (dB/100m)	DELAY (ns/100m)
1	2.0	68.3	65.3	66.8	63.8	21	570.0
4	4.1	59.3	56.3	54.8	51.8	24	552.0
8	5.8	54.8	51.8	48.7	45.7	25.5	546.7
10	6.5	53.3	50.3	46.8	43.8	26	545.4
16	8.2	50.2	47.2	42.7	39.7	26	543.0
20	9.3	48.8	45.8	40.8	37.8	26	542.0
25	10.4	47.3	44.3	38.8	35.8	25.3	541.2
31.25	11.7	45.9	42.9	36.9	33.9	24.6	540.4
62.5	17.0	41.4	38.4	30.9	27.9	22.5	538.6
100	22.0	38.3	35.3	26.8	23.8	21.1	537.6

1.0-100.0MHz Input Impedance (Ohms)	100±6
1.0-250.0MHz Delay Skew (ns/100m)	≤45
Pair-to-Ground Capacitance Unbalance (pF/100m)	≤330
Max. Conductor DC Resistance 20°C (Ohms/km)	93.8
Resistance Unbalance (%)	≤5

CATALOGUE NUMBER DESCRIPTION

PVC Cables

ACT4P5EUCM3RBxx Category 5e 4 pair UTP Cable 305m, CM

ACT4P5EUCR3RBxx Category 5e 4 pair UTP Cable 305m, CMR

LSZH Cables

ACT4P5EULS3RBxx Category 5e 4 pair UTP Cable 305m, LSZH

Where **xx** denotes the color of jacket: BU = Blue, WE = White, BK = Black, GY = Grey, GR = Green, RD = Red, YL = Yellow

Note : color other than blue and white is available upon request with additional lead time and MOQ requirement

Category 5e Multipair UTP Cables

Category 5 25-Pair Cable is constructed of 24AWG (0.5mm) solid-copper conductors insulated with high density polyethylene. The insulated conductors are tightly twisted into pairs, stranded into mini-units. This construction allows for easy pair identification and subsequent termination.

Category 5 25-Pair Cable provides excellent high-speed transmission, certified to 100MHz and supports applications such as 155Mb/s ATM, 622Mb/s ATM and IEEE 802.3 1000 Base-T (Gigabit Ethernet) standards, using parallel transmission technology or as a high performance voice riser cable. This product is UL listed with a CMR fire rating for riser use.

Category 5e 25-Pair Cable allows the use of multi-pair cables in interconnect and zone cabling applications. The 25-pair cable construction reduces tray and conduit fill rates whilst allowing high-density interconnections.



ACT25P5EUCR3RGY

PHYSICAL SPECIFICATIONS

Gauge	24AWG
Jacket Thickness	0.8mm
Weight	184 kg/km
Outside Diameter	12.5mm
Operating Temperature Range	-20°C ~ 60°C
Insulation Thickness	0.21mm

ELECTRICAL SPECIFICATIONS

Non. Velocity of Prop. (NVP)	0.69
Max. Conductor Resistance 20°C	9.38 Ohms/100m
Resistance Unbalance %	≤5%
Pair-to-Ground Capacitance Unbalance	≤330pF/100m

ELECTRICAL PERFORMANCE

Transmission Frequency (MHZ)	1	4	10	16	20	31.25	62.5	100
NEXTA db/100m	65.3	56.3	50.3	47.3	45.8	42.9	38.4	35.3
Characteristic Impedance	100 +/- 15							
Attenuation db/100m	2.0	4.1	6.5	8.2	9.2	11.7	17.0	22.0
Structural Return Loss db/100m	> 23				> 23 - 10Log(F/20)			
Return Loss db/100m	N/A							
Nominal Velocity of Propagation	> 65%							
PSNEXTA dB / 100M	65.3	53.3	47.3	44.4	42.8	39.9	35.4	32.3
ACR db/100M	63.3	52.2	43.8	39.1	36.5	31.2	21.4	13.3
PSACR db/100M	60.3	49.2	40.8	36.1	33.5	28.3	18.4	10.3

PRODUCT FEATURES

- Compliant with Enhanced Category 5 Standard.
- PE Insulation of conductors.
- Grey PVC jacket.

CUSTOMER BENEFITS

- Ideal for high-speed networks and broadband distribution in the premise.
- Suits horizontal and vertical wiring.

CATALOGUE NUMBER	DESCRIPTION
ACT25P5EUCM3RGY	Cat.5e 25pr UTP Cable 305m/reel Grey CM
ACT25P5EUCR3RGY	Cat.5e 25pr UTP Cable 305m/reel Grey CMR
ACT25P5EULS3RGY	Cat.5e 25pr UTP Cable 305m/reel Grey LSZH

Category 3 Multipair UTP Cables

The Category 3 Cable has the same electrical and performance characteristics as Category 3 multipair LAN Cable .



ACT25P3UCM3RGY

PHYSICAL SPECIFICATIONS

Gauge	24AWG
Tensile Strength (Mpa)	≥13.8kg
Insulation Thickness	0.188±0.01mm
Operating Temperature Range	-20°C ~ 60°C
Jacket Thickness (mm)	0.6/1.2/1.3 for 25/50/100-pair
Outer Diameter (mm)	11.0/15.8/22.0 for 25/50/100-pair

ELECTRICAL SPECIFICATIONS

Non. Velocity of Prop. (NVP)	0.69
Max. Conductor Resistance 20°C	9.38 Ohms/100m
Resistance Unbalance %	≤5%
Pair-to-Ground Capacitance Unbalance	≤330pF/100m

ELECTRICAL PERFORMANCE

Transmission Frequency (MHZ)	1	4	8	10	16
NEXTA db/100m	41	32	27	26	23
Characteristic Impedance	100 +/- 15				
Attenuation db/100m	2.6	5.6	8.5	9.7	13.1
Structural Return Loss db/100m	12	12	12	12	10
Return Loss db/100m	N/A				
Nominal Velocity of Propagation	> 65%				

PRODUCT FEATURES

- Compliant with ANSI/TIA/EIA-568C Category 3 Standard.
- IEC LSZH fire retardant tested.
- 24AWG, solid conductor.

CUSTOMER BENEFITS

- Suitable for IEEE 802.3 10 Base-T or telephony applications.
- Available in 25-Pair or 100-Pair configurations.

CATALOGUE NUMBER	DESCRIPTION
ACT25P3UCM3RGY	Cat.3 25pr UTP Cable 305m/reel Grey CM
ACT25P3UCR3RGY	Cat.3 25pr UTP Cable 305m/reel Grey CMR
ACT25P3ULS3RGY	Cat.3 25pr UTP Cable 305m/reel Grey LSZH
ACT50P3UCM3RGY	Cat.3 50pr UTP Cable 305m/reel Grey CM
ACT50P3UCR3RGY	Cat.3 50pr UTP Cable 305m/reel Grey CMR
ACT50P3ULS3RGY	Cat.3 50pr UTP Cable 305m/reel Grey LSZH
ACT100P3UCM3RGY	Cat.3 100pr UTP Cable 305m/reel Grey CM
ACT100P3UCR3RGY	Cat.3 100pr UTP Cable 305m/reel Grey CMR
ACT100P3ULS3RGY	Cat.3 100pr UTP Cable 305m/reel Grey LSZH

ID6 Patch Panels



ACTPP6U24SHC

The ID6 Patch Panels are a perfect combination of sleek looks, outstanding performance and end-user functionality.

The 24 individual Category 6 shuttered Keystone modular jacks incorporate patented flushed-faced, zero footprint design, improving consistency in performance, and exactly matching the work-area outlets. This product incorporates Channel Designation Dials with icons for the top and colours for the bottom of each outlet. It also features top and bottom hinged label windows allowing for further identification of each channel designation. Velcro cable ties, cage nuts and screws are also provided with the product.

Combined with other Actassi products, the ID6 Patch Panel provides the ultimate structured cabling solution.

ELECTRICAL CHARACTERISTICS

Dielectric Strength	1,000V RMS at 60Hz for 1 minute
Current Rating	1.5Amp maximum
Insulation Resistance	200MΩ minimum
Contact Resistance	1mΩ per contact
Temperature Range	-40° C to +70° C
Transmission Performance	Exceeds ISO/IEC 11801 Class E AS/NZS 3080:2003 Class E

MECHANICAL CHARACTERISTICS

Modular Connector	
RJ45 8-Pin Connector	FCC part 68, Subpart F and IEC-60603-7 compliant
Durability	1,000 mating cycles
Material	Phosphor bronze with 50 micro-inches of gold over 100 micro-inches nickel plating
IDC Connector	
IDC Connector	Insulation slicing of 22 to 24AWG(0.64mm to 0.41mm)
Insulation Diameter (Wire)	0.70mm - 1.40mm
Connector Material	Phosphor bronze with nickel plating

IDC Body & Cover Material Fire-Retardant, UL 94V-0, Plastic

PRODUCT FEATURES

- Aesthetic, contemporary design.
- Shuttered outlets/ports.
- Top (Icon) and bottom (Colour) Designation Dials.
- Top and bottom hinged label windows for additional identification.
- Powder coated metal framework.
- Universal colour-coding for T568A and T568B wiring scheme.
- Removable rear cable management tray.
- Compatible with standard 19" equipment frames.
- IDC termination using an Actassi or other compatible tools.
- Fully compliant to AS/NZS 3080:2003, ISO/IEC 11801 Edition 2002 and ANSI/TIA/EIA-568-C Series Connecting Hardware Standards.

CUSTOMER BENEFITS

- Contemporary design will improve the aesthetic of all installations.
- Outlet shutters protect the contact pins from dust ingress, insect infestation and the insertion of foreign objects.
- Channel designation dials and hinged windows provide an extensive level of designation identification.
- Better than Category 6 Performance.
- Complete with all mounting and cable fixing hardware.
- Rear cable management tray is supplied loose, allowing the installer to fit after termination.
- Powder coated metal frame is robust and protects the patch panel from corrosion and scratching.
- Compliance with international standards give customers peace of mind that their network will perform to link, channel and application requirements.

CATALOGUE NUMBER	DESCRIPTION
ACTPP6U24SHC	Category 6 UTP 24-port ID6 Shuttered Patch Panel, loaded

Category 6 Patch Panels



ACTPP6U24NSS_S

The Patch Panels are a perfect combination of sleek looks and outstanding performance.

The 24 individual Category 6 Keystone modular jacks, improving consistency in performance, and exactly matching the work-area outlets. These modular jacks are colour coded for both T568A and T568B wiring scheme and can be terminated using an Actassi or other compatible tools. Clear wire retaining caps are supplied and can be used to provide additional cable strain relief.

The sleek silver fascia of the product comprises of three designation-strip holders with a label kit supplied. Velcro cable ties, cage nuts and screws are also provided with the product.

Combined with other Actassi Products, they are the perfect solution to your voice and data communications needs.

ELECTRICAL CHARACTERISTICS

Dielectric Strength	1,000V RMS at 60Hz for 1 minute
Current Rating	1.5Amp maximum
Insulation Resistance	200MΩ minimum
Contact Resistance	1mΩ per contact
Temperature Range	-40° C to +70° C
Transmission Performance	Exceeds ISO/IEC 11801 Class E AS/NZS 3080:2003 Class E

MECHANICAL CHARACTERISTICS

Modular Connector	
RJ45 8-Pin Connector	FCC part 68, Subpart F and IEC-60603-7 compliant
Durability	1,000 mating cycles
Material	Phosphor bronze with 50 micro-inches of gold over 100 micro-inches nickel plating
IDC Connector	
IDC Connector	Insulation slicing of 22 to 24AWG (0.64mm to 0.41mm)
Insulation Diameter (Wire)	0.70mm - 1.40mm
Connector Material	Phosphor bronze with nickel plating

IDC Body & Cover Material Fire-Retardant, UL 94V-0, Plastic

PRODUCT FEATURES

- Aesthetic, contemporary design.
- Powder coated metal framework.
- Universal colour-coding for T568A and T568B wiring scheme.
- Removable rear cable management tray.
- Compatible with standard 19" equipment frames.
- IDC termination using a Actassi or other compatible tools.
- Fully compliant to AS/NZS 3080:2003, ISO/IEC 11801 Edition 2 2002 and ANSI/TIA/EIA-568-C Series Connecting Hardware Standards.

CUSTOMER BENEFITS

- Contemporary design will improve the aesthetic of all installations.
- Better than Category 6 Performance.
- Complete with all mounting and cable fixing hardware.
- Rear cable management tray is supplied loose, allowing the installer to fit after termination.
- The front labeling system provides a clear and efficient means of identifying circuits.
- Powder coated metal frame is robust and protects the patch panel from corrosion and scratching.
- Compliance with international standards give customers peace of mind that their network will perform to link, channel and application requirements.

CATALOGUE NUMBER	DESCRIPTION
ACTPP6U24NSS_S	Category 6, UTP 24-port, Non-Shutter, Patch Panel, loaded
ACTPP6U24SHS	Category 6, UTP 24-port, Shuttered, Patch Panel, loaded
ACTPPAU24NS	Category 6, UTP 24-port, Non-Shutter, Angled Panel, unloaded
ACTPPAS24NS	Category 6, FTP 24-port, Non-Shutter, Angled Panel, unloaded

Category 5e Patch Panels



ACTPP5EU24NSS

The Category 5e Patch Panels are a perfect combination of sleek looks and outstanding performance.

They feature 24 individual Category 5e modular jacks that are colour coded for both T568A and T568B wiring scheme and can be terminated using a Actassi or other compatible tools. Clear wire retaining caps are supplied and can be used to provide additional cable strain relief.

The sleek silver face of the product comprises three designation-strip holders with a label kit supplied. Velcro cable ties, cage nuts and screws are also provided with the product.

Combined with other Actassi Products, they are the perfect solution to your voice and data communications needs.

ELECTRICAL CHARACTERISTICS

Dielectric Strength	1,000V RMS at 60Hz for 1 minute
Current Rating	1.5Amp maximum
Insulation Resistance	10MΩ minimum
Contact Resistance	2mΩ per contact
Temperature Range	-10°C to +60°C
Transmission Performance	Exceeds ISO/IEC 11801 Class E AS/NZS 3080:2003 Class E

MECHANICAL CHARACTERISTICS

Modular Connector	
RJ45 8-Pin Connector	FCC part 68, Subpart F and IEC-60603-7 compliant
Durability	750 insertion cycles min.
Material	Phosphor bronze with 50 micro-inches of gold over 100 micro-inches nickel plating
IDC Connector	
IDC Connector	Insulation slicing of 22 to 24AWG (0.64mm to 0.41mm)
Insulation Diameter (Wire)	0.70mm - 1.60mm
Connector Material	Phosphor bronze with nickel plating

IDC Body & Cover Material Fire-Retardant, UL 94V-0, Plastic

PRODUCT FEATURES

- Aesthetic, contemporary design.
- Powder coated metal framework.
- Universal colour-coding for T568A and T568B wiring scheme.
- Removable rear cable management tray.
- Compatible with standard 19" equipment frames.
- IDC termination using an Actassi or other compatible tools.
- Fully compliant to AS/NZS 3080:2003, ISO/IEC 11801 Edition 2 2002 and ANSI/TIA/EIA-568-C Series Connecting Hardware Standards.

CUSTOMER BENEFITS

- Contemporary design will improve the aesthetic of all installations.
- Complete with all mounting and cable fixing hardware.
- Rear cable management tray is supplied loose, allowing the installer to fit after termination.
- The front labelling system provides a clear and efficient means of identifying circuits.
- Powder coated metal frame is robust and protects the patch panel from corrosion and scratching.
- Compliance with international standards give customers peace of mind that their network will perform to link, channel and application requirements.

CATALOGUE NUMBER DESCRIPTION

ACTPP5EU24NSS Category 5e UTP 24-port Non-Shutter Patch Panel, loaded

Category 6 Shielded Modular Jacks

The Schneider Electric Category 6 Shielded Modular Jack is an extremely compact, self contained unit which simply snaps into Standard Schneider Electric E-Series and E2000 Series Wall Plates. The compact size of the modular jack provides versatility in its application. Modular Jacks can be mounted onto the Shielded patch panel or onto a single standard size wall plate (oriented either vertically or horizontally to suit all regions).

DIMENSIONS

Depth	37.65mm
Width	17.60mm
Height	25.50mm (with rear cover)

MECHANICAL CHARACTERISTICS

Materials	Housing Bayblend with a 3 layers metallisation (Ni, Cu, Ni)
Dressing Block	Polyamide
Contacts	Copper Alloy Plating: Gold over full Nickel
Max. Diameter on the core insulation to fit into the dressing block channels	1.45mm
Conductor Range Acceptance	
Type	Single Core
Min. diameter	0.45mm
Max. diameter	0.64mm

ELECTRICAL CHARACTERISTICS

Contact Resistance	<20mΩ
Insulation Resistance	>5GΩ
Shielding Resistance	<20mΩ
Propagation Delay	1.0ns
Skew Delay	0.4ns
Transfer Impedance	25mΩ @1MHz (Acc to IEC 96-1) 160mΩ @1MHz (Acc to IEC 96-1)
Operating Voltage (U _{eff})	125V
Dielectric Withstand Voltage	1000V

TRANSMISSION PERFORMANCE

Frequency (MHz)	NEXT (dB)	PS-NEXT (dB)	FEXT (dB)	PS-FEXT (dB)	Return Loss (dB)	Insertion Loss (dB)
1	>75.0	>71.0	>75.0	>72.0	>30.0	<0.10
4	>75.0	>71.0	>71.1	>68.1	>30.0	<0.10
10	>74.0	>70.0	>63.0	>60.1	>30.0	<0.10
16	>69.9	>65.9	>59.0	>56.0	>30.0	<0.10
20	>68.0	>64.0	>57.1	>54.1	>30.0	<0.10
31.25	>64.1	>60.1	>53.2	>50.2	>30.0	<0.11
62.5	>58.1	>54.1	>47.2	>44.2	>28.1	<0.16
100	>54.0	>50.0	>43.1	>40.1	>24.0	<0.20
200	>48.0	>44.0	>37.1	>34.1	>18.0	<0.28
250	>46.0	>42.0	>35.1	>32.1	>16.0	<0.32



ACTRJSM6NSS



ACTRJSA6NSS

PRODUCT FEATURES

- Fast, reliable installation process with dressing block and installation tool.
- Automatic earthing when connector is plugged onto the FTP patch panel.
- Automatic contact of the earthing RJ45 body.

CUSTOMER BENEFITS

- 180° cable dress for easy termination.
- Modular jack is backward compatible.
- Fits in standard Schneider Electric Keystone wall plates.

CATALOGUE NUMBER DESCRIPTION

ACTRJSM6NSS	Category 6, Shielded Keystone, Non-Shutter Modular Jack
ACTRJSM6NSSP	Category 6, Shielded Keystone, Non-Shutter Modular Jack for Panel Version
ACTRJSA6NSS	Category 6, Shielded Angled, Non-Shutter Modular Jack

Category 6 Unshielded Modular Jacks



VDIB17756UWE



VDIB17736UWE



VDIB17766UWE



VDIB17746UWE

The Actassi range of Category 6 unshielded modular jacks is the next generation of data communications solutions.

The Category 6 shuttered modular jacks incorporates our patented shutter mechanism. Combining this feature with our new shutter technology and you have the most technically advanced Category 6 connector on the market. These modular jacks are colour-coded for both 568A and 568B standards and can be terminated using a Schneider Electric punch down impact or Krone tool.

Clear wire retaining caps are supplied and can be used to provide additional cable strain relief.

Combined with other Actassi Products, they are the perfect solution to your voice and data communications needs.

ELECTRICAL CHARACTERISTICS

Dielectric Strength	1,000V RMS at 60Hz for 1 minute
Current Rating	1.5Amp maximum
Insulation Resistance	200MΩ minimum
Contact Resistance	1mΩ per contact
Temperature Range	-40° C to +70° C
Transmission Performance	ANSI/TIA/EIA-568-C, ISO/IEC 11801 Class E AS/NZS 3080:2003 Class E

MECHANICAL CHARACTERISTICS

Modular Connector	
RJ45 8-Pin Connector	FCC part 68, Subpart F and IEC-60603-7 compliant
Durability	1,000 mating cycles min.
Material	Phosphor bronze with 50 micro-inches of gold over 100 micro-inches nickel plating
IDC Connector	
IDC Connector	Insulation slicing of 22 to 24AWG (0.64mm to 0.41mm)
Insulation Diameter (Wire)	0.70mm - 1.40mm
Connector Material	Phosphor bronze with nickel plating

PRODUCT FEATURES

- Aesthetic, contemporary design.
- Patented flush-faced, zero footprint shutter mechanism.
- Fully compliant to AS/NZS 3080:2003, ISO/IEC 11801 Edition 2002 and ANSI/TIA/EIA-568-C Series Connecting Hardware Standards.
- Backward compatible with Category 5 and 5e products.
- Flexible locking tabs (30-Mech connectors).
- UL 94V-0 rated.
- Accepts solid 22–24AWG diameter conductors.

CUSTOMER BENEFITS

- Performs beyond Category 6 Standards.
- Shutter mechanism is easy to operate, simply insert the plug lead into the jack.
- Protection from dust ingress, insect infestation and the insertion of foreign objects.
- Various colours for easier circuit identification.
- Backward compatible with Category 5 and 5e products, allowing component mixing without degrading the network below the minimum component category.
- 30-Mech style fits all Schneider Electric Wall Plates (Australian, US and British), giving the customer access to the most popular plates on the market.
- For use in Multi-user Telecommunication Outlet Applications (MUTO) and Consolidation Points (CP).
- Flexible locking tabs allow for easy removal from Wall Plates (30-Mech).
- Clear IDC caps that allow for termination verification and assist in cable retention.
- Compatible with Schneider

CATALOGUE NUMBER	DESCRIPTION
Cat6 30 Mech	
VDIB17756Uxx	Non-Shutter Modular Jack, Category 6 Unshielded, 30M
VDIB17736Uxx	Shutter Modular Jack, Category 6 Unshielded, 30M
Cat6 Keystone	
VDIB17766Uxx	Non-Shutter Modular Jack, Category 6 Unshielded, Keystone
VDIB17746Uxx	Shutter Modular Jack, Category 6 Unshielded, Keystone
Cat6 Angled Jack	
ACTRJSMA6NSUxx	Non-Shutter Modular Jack, Category 6 Unshielded, Angled

BK=Black, BU=Blue, GR=Green, RD=Red, SG=Soft Grey, WE=White, YL=Yellow

Category 5e Unshielded Modular Jacks

The Category 5e modular jacks incorporate patented shutter mechanism. These modular jacks are colour-coded for both T568A and T568B wiring scheme and can be terminated using an Actassi or other compatible tools.

Clear wire retaining caps are supplied and can be used to provide additional cable strain relief.

Combined with other Actassi Products, they are the perfect solution to your voice and data communications needs.

ELECTRICAL CHARACTERISTICS

Dielectric Strength	1,000V RMS at 60Hz for 1 minute
Current Rating	1.5Amp maximum
Insulation Resistance	500MΩ minimum
Contact Resistance	2mΩ per contact
Temperature Range	-40° C to +70° C
Transmission Performance	exceeds ISO/IEC 11801 Class E AS/NZS 3080:2003 Class E

MECHANICAL CHARACTERISTICS

Modular Connector	
RJ45 8-Pin Connector	FCC part 68, Subpart F and IEC-60603-7 compliant
Durability	750 insertion cycles min.
Material	Phosphor bronze with 50 micro-inches of gold over 100 micro-inches nickel plating
IDC Connector	
IDC Connector	Insulation slicing of 22 to 24AWG (0.64mm to 0.41mm)
Insulation Diameter (Wire)	0.70mm - 1.60mm
Connector Material	Phosphor bronze with nickel plating

IDC Body & Cover Material Fire-Retardant, UL 94V-0, Plastic



ACTRJ5M5ENSUWE



ACTRJ30M5ENSUWE

PRODUCT FEATURES

- Aesthetic, contemporary design.
- Patented flush-faced, zero footprint shutter mechanism.
- Fully compliant to AS/NZS 3080:2003, ISO/IEC 11801 Edition 2 2002 and ANSI/TIA/EIA-568-C Series Connecting Hardware Standards.
- Flexible locking tabs (30-Mech connectors).
- Compatible with Actassi or other compatible tools.
- UL 94V-0 rated.
- Accepts solid 22-24AWG diameter conductors.

CUSTOMER BENEFITS

- Shutter mechanism is easy to operate, simply insert the plug lead into the jack.
- Protection from dust ingress, insect infestation and the insertion of foreign objects.
- Available in various colours for easier circuit identification.
- 30-Mech style fits all Schneider Electric Wall Plates (Australian, US and British), giving the customer access to the most popular plates on the market.
- For use in Multi-user Telecommunications Outlet Applications (MUTO) and Consolidation Points (CP).
- Flexible locking tabs allow for easy removal from Wall Plates (30-Mech).
- Clear IDC caps that allow for termination verification and assist in cable retention.

CATALOGUE NUMBER	DESCRIPTION
Category 5e 30 Mech	
ACTRJ30M5ENSUxx	Non-Shutter Modular Jack, Category 5e unshielded 30M
VDIB17735Uxx	Shutter Modular Jack, Category 5E, 30M
Category 5e Keystone	
ACTRJ5M5ENSUxx	Non-Shutter Modular Jack, Category 5e unshielded Keystone
VDIB17745Uxx	Shutter Modular Jack, Category 5e unshielded Keystone
<i>BK=Black, BU=Blue, GR=Green, RD=Red, SG=Soft Grey, WE=White, YL=Yellow</i>	

Category 5e Shielded Modular Jacks

The Category 5e Shielded Modular Jack is a superior product delivering the best performance. The compact size of the modular jack provides versatility in its application. The Modular jack simply snaps into Standard E-Series and E2000 Series Wall Plates and can be mounted onto the FTP patch panel or any standard size wall plates (oriented either vertically or horizontally to suit all regions).

MECHANICAL CHARACTERISTICS

Materials	Housing Bayblend with a 3 layers metallisation (Ni, Cu, Ni)
Dressing Block	Polyamide
Contacts	Copper Alloy Plating: Gold over full Nickel
Max. Diameter on the core insulation to fit into the dressing block channels	1.45mm

ELECTRICAL CHARACTERISTICS

Contact Resistance	<20mΩ
Insulation Resistance	>5GΩ
Shielding Resistance	<20mΩ
Propagation Delay	1.0ns
Skew Delay	0.4ns
Transfer Impedance	25mΩ @1MHz (Acc to IEC 96-1) 160mΩ @1MHz (Acc to IEC 96-1)
Operating Voltage (U _{eff}) Dielectric	125V
Withstand Voltage	1000V

DIMENSIONS

Depth	37.65mm
Width	17.60mm
Height	25.50mm (with rear cover)



ACTRJSM5ENSS

PRODUCT FEATURES

- Category 5e compliant.
- Fits all style wall plates (US, Australian and British).
- Flexible locking tabs for easy insertion/removal.
- Universal colour coding for T568A and T568B.

CUSTOMER BENEFITS

- Designed to snap in wall plates and unloaded FTP panel.
- Features 180° and 90° angled versions.
- Accepts solid 22-24AWG conductors.

CATALOGUE NUMBER	DESCRIPTION
ACTRJSM5ENSS	Category 5e, Shielded, Modular Jack, Non-Shutter
ACTRJSM5ENSSP	Category 5e, Shielded, Modular Jack, Non-Shutter for Patch Panel

Category 6 FTP Patch Cords

The Actassi Category 6 FTP Cord is a superior product delivering the best network performance when used in conjunction with other Actassi Category 6 FTP products. The Patch Cord is constructed of high grade Category 6+ cable and quality RJ45 plugs and is designed to operate up to 250MHz. This enables it to operate successfully in a Category 6 FTP environment. Patch cords are available in white and blue with matching boots to help with circuit identification in the cabinet/rack.



ACTPC6SBCMxxyy
ACTPC6SBLsxyy

TRANSMISSION SPECIFICATIONS

Parameter	Value (-dB)	Cat 6 (-dB)
NEXT	55.1	≥54.0
Power Sum NEXT	52.0	≥54.0
FEXT	49.8	≥43.1
Power Sum FEXT	46.9	≥40.1
Attenuation	0.1	≤0.2
Return Loss	27.0	≥23.0

MECHANICAL CHARACTERISTICS

Cable	
Gauge	FCC part 68, Subpart F and IEC-60603-7 compliant
Pair Count	4-Pair individually colour coded with filler and PVC jacket
Sequence	Wiring sequence T568A/B
Durability	1,000 mating cycles
RJ45 Plug	Polycarbonate, FCC Part 68 Subpart F, UL 94V-0
Plug Boot	PVC
Contact Material	Phosphor bronze with 50 micro-inches gold over 100 micro-inches nickel
Electrical	
Dielectric Strength	100V RMS at 60Hz for 1 minute
Voltage Rating	150VAC maximum
Current Rating	1.5A maximum
Insulation	500MΩ minimum
Contact Resistance	10mΩ maximum

PRODUCT FEATURES

- Fully compliant to AS/NZS 3080:2003, ISO/IEC 11801 Edition 2 2002 and ANSI/TIA/EIA-568-C Series Connecting Hardware Standards.
- LSZH Fire rated jacket.
- PE insulation on conductors.
- PVC outer jacket material.
- Backward compatible with Category 5 and 5e products.

CUSTOMER BENEFITS

- Performs beyond the latest Category 6 International Standards.
- Comes in various lengths to assist with better cable management.
- Is backward compatible with Category 5 and 5e products, allowing component mixing without degrading the network below the minimum component category.

CATALOGUE NUMBER	DESCRIPTION
PVC Patch Cords	
ACTPC6SBCMxxyy	Category 6, Patch Cord, FTP, CM
LSZH Patch Cords	
ACTPC6SBLsxyy	Category 6, Patch Cord, FTP, LSZH
<i>xx denotes the length of Patch Cords (w): 10=1M, 20=2M, 30=3M, 50=5M, 100=10M</i>	
<i>yy denotes the color of the patch cord (yy): BK=Black, BU=Blue, GR=Green, GY=Grey, RD: Red, WE=White, YL=Yellow</i>	
<i>Note: Customized color and length is available upon request with additional lead time and MOQ requirement.</i>	

Category 5e F/UTP Patch Cords

The Actassi Category 5e F/UTP Cord is designed for use in either workstation or cabinet environments. The product delivers the best network performance when used in conjunction with other Actassi Category 5e F/UTP products. The Patch Cord is constructed of stranded Category 5e cable and quality shielded RJ45 plugs. This enables it to operate successfully in a Category 5e F/UTP environment. Patch cords are available in grey and blue with matching boots to help with circuit identification in the cabinet/rack.



ACTPC5ESBCM10BU

TRANSMISSION SPECIFICATIONS

@100MHz	Product Specification	Cat 5e Standard
Crosstalk (-dB) - 2M	35.3	35.0
Crosstalk (-dB) - 5M	35.1	34.7
Crosstalk (-dB) - 10M	34.8	34.5
Return Loss (-dB)	20.0	18.0

MECHANICAL CHARACTERISTICS

Connectors	
Gauge	FCC part 68, Subpart F and IEC-60603-7 compliant
Pair Count	4-Pair individually colour coded with filler and PVC jacket
Sequence	Wiring sequence T568A/B
Durability	1,000 mating cycles
RJ45 Plug	Polycarbonate, FCC Part 68 Subpart F, UL 94V-0
Plug Boot	PVC
Contact Material	Phosphor bronze with 50 micro-inches gold over 100 micro-inches nickel
Electrical	
Dielectric Strength	100V RMS at 60Hz for 1 minute
Voltage Rating	150VAC maximum
Current Rating	1.5A maximum
Insulation	1MΩ minimum
Contact Resistance	10mΩ maximum

PRODUCT FEATURES

- Fully compliant to AS/NZS 3080:2003 Class D and Category 5e Standards.
- LSZH Fire rated jacket.
- PE insulation on conductors.
- PVC outer jacket material.
- High-quality UTP/RJ45 Patch Cords.
- Fully moulded RJ45 plugs ensure stable performance.

CUSTOMER BENEFITS

- Comes in various lengths to assist with better cable management.
- Fully moulded boot and insert not only ensures pair integrity but also provides an enhanced strain relief, especially during installations or moves.

CATALOGUE NUMBER	DESCRIPTION
PVC Patch Cords	
ACTPC5ESBCMxxyy	Category 5e, Patch Cord, F/UTP, CM
LSZH Patch Cords	
ACTPC5ESBLSxxyy	Category 5e, Patch Cord, F/UTP, LSZH
<i>xx denotes the length of Patch Cords (w): 10=1M, 20=2M, 30=3M, 50=5M, 100=10M</i>	
<i>yy denotes the color of the patch cord (yy): BK=Black, BU=Blue, GR=Green, GY=Grey, RD=Red, WE=White, YL=Yellow</i>	
<i>Note: Customized color and length is available upon request with additional lead time and MOQ requirement.</i>	

Category 6 U/UTP Patch Cords

The Actassi Category 6 Patch Cord is a superior product delivering the best network performance when used in conjunction with other Actassi Category 6 products.

The Patch Cord is constructed of high grade cable and quality RJ45 plugs, and is designed to operate up to 300MHz. This enables it to operate successfully in a Category 6 environment.

Patch cords are available in various colours with matching boots to help with circuit identification in the cabinet/rack.

As an integral part of the Actassi series, this product has a system performance guarantee when installed by a Schneider Electric Endorsed Installer or Endorsed Partner.



ACTPC6UBCMxxyy
ACTPC6UBLSxxyy

TRANSMISSION SPECIFICATIONS

Parameter	Value (-dB)	Cat 6 (-dB)
NEXT	55.1	≥54.0
Power Sum NEXT	52.0	≥54.0
FEXT	49.8	≥43.1
Power Sum FEXT	46.9	≥40.1
Attenuation	0.1	≤0.2
Return Loss	27.0	≥23.0

MECHANICAL CHARACTERISTICS

Cable	
Gauge	FCC part 68, Subpart F and IEC-60603-7 compliant
Pair Count	4-Pair individually colour coded with filler and PVC jacket
Sequence	Wiring sequence T568A/B
Durability	1,000 mating cycles
RJ45 Plug	Polycarbonate, FCC Part 68 Subpart F, UL 94V-0
Plug Boot	PVC
Contact Material	Phosphor bronze with 50 micro-inches gold over 100 micro-inches nickel
Electrical	
Dielectric Strength	100V RMS at 60Hz for 1 minute
Voltage Rating	150VAC maximum
Current Rating	1.5A maximum
Insulation	500MΩ minimum
Contact Resistance	10mΩ maximum

PRODUCT FEATURES

- Fully compliant to AS/NZS 3080:2003, ISO/IEC 11801 Edition 2 2002 and ANSI/TIA/EIA-568-C Series Connecting Hardware Standards.
- Fire rated jacket.
- PE insulation on conductors.
- PVC outer jacket material.
- Backward compatible with Category 5 and 5e products.

CUSTOMER BENEFITS

- Performs beyond the latest Category 6 International Standards.
- Comes in various lengths to assist with better cable management.
- Is backward compatible with Category 5 and 5e products, allowing component mixing without degrading the network below the minimum component category.

CATALOGUE NUMBER DESCRIPTION

PVC Patch Cords

ACTPC6UBCMxxyy Category 6, Patch Cord, U/UTP, CM

LSZH Patch Cords

ACTPC6UBLSxxyy Category 6, Patch Cord, U/UTP, LSZH

xx denotes the length of Patch Cords (w): 10=1M, 20=2M, 30=3M, 50=5M, 100=10M

yy denotes the color of the patch cord (yy): BK=Black, BU=Blue, GR=Green, GY=Grey, RD: Red, WE=White, YL=Yellow

Note: Customized color and length is available upon request with additional lead time and MOQ requirement.

Category 5e U/UTP Patch Cords

The Actassi Series Category 5e Patch Cord is a superior product delivering the best network performance when used in conjunction with other Actassi Category 5e products.

The Patch Cord is constructed of high grade cable and quality RJ45 plugs. The RJ45 plugs are provided with a fully moulded boot and a moulded insert to ensure pair integrity. The fully moulded boot ensures excellent strain relief and together with the insert, ensures that performance is not degraded when using the Patch Cord.

Patch Cords are available in various colours to help with circuit identification in the cabinet/rack.



ACTPC5EUBCMxxyy
ACTPC5EUBLSxxyy

TRANSMISSION SPECIFICATIONS

@100MHz	Product Specification	Cat 5e Standard
Crosstalk (-dB) - 2M	35.3	35.0
Crosstalk (-dB) - 5M	35.1	34.7
Crosstalk (-dB) - 10M	34.8	34.5
Return Loss (-dB)	20.0	18.0

MECHANICAL CHARACTERISTICS

Connectors	
Gauge	FCC part 68, Subpart F and IEC-60603-7 compliant
Pair Count	4-Pair individually colour coded with filler and PVC jacket
Sequence	Wiring sequence T568A/B
Durability	1,000 mating cycles
RJ45 Plug	Polycarbonate, FCC Part 68 Subpart F, UL 94V-0
Plug Boot	PVC
Contact Material	Phosphor bronze with 50 micro-inches gold over 100 micro-inches nickel
Electrical	
Dielectric Strength	100V RMS at 60Hz for 1 minute
Voltage Rating	150VAC maximum
Current Rating	1.5A maximum
Insulation	1MΩ minimum
Contact Resistance	10mΩ maximum

PRODUCT FEATURES

- Fully compliant to AS/NZS 3080:2003 Class D and Category 5e Standards.
- Fire rated jacket.
- PE insulation on conductors.
- PVC outer jacket material.
- High-quality UTP/RJ45 Patch Cords.
- Fully moulded RJ45 plugs ensure stable performance.

CUSTOMER BENEFITS

- Comes in various lengths to assist with better cable management.
- Fully moulded boot and insert not only ensures pair integrity but also provides an enhanced strain relief, especially during installations or moves.

CATALOGUE NUMBER	DESCRIPTION
PVC Patch Cords	
ACTPC5EUBCMxxyy	Category 5e, Patch Cord, U/UTP, CM
LSZH Patch Cords	
ACTPC5EUBLSxxyy	Category 5e, Patch Cord, U/UTP, LSZH
<i>xx denotes the length of Patch Cords (w): 10=1M, 20=2M, 30=3M, 50=5M, 100=10M</i>	
<i>yy notes the color of the patch cord (yy): BK=Black, BU=Blue, GR=Green, GY=Grey, RD=Red, WE=White, YL=Yellow</i>	
<i>Note: Customized color and length is available upon request with additional lead time and MOQ requirement.</i>	

Fast Termination Tool with Cut Module

It is a fast termination tool primary for all Telecom and Data Communication installers. This tool simultaneously seats and trims eight all wires at one single squeeze. With this tool, installers can easily perform wire terminations and cable trimming when installing designated Actassi Modular Jacks. Keystone or 30-Mech.

DIMENSIONS

Fast Punchdown Tool with 110 Cut Module

Shipping Pack	190 x 190 x 30mm (LxWxH)
Shipping Weight	305g

Quick Termination Tool with Cut Module

Shipping Pack	213 x 132 x 35mm (LxWxH)
Shipping Weight	395g



ACTTLQTBCM

PRODUCT FEATURES

- Fast and easy field installation tool
- Simple squeeze handle
- Special jack guide design
- Replaceable cutting module design
- Handle lock design

CUSTOMER BENEFITS

- Save up termination time over 80%
- Save up termination force needed to 70%
- Termination of all wires at one single squeeze
- Ensure stability and safety during termination
- Prolong tool's life cycle
- Easy & handy carrying and storage

CATALOGUE NUMBER	DESCRIPTION
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For Most Premium Actassi Module Jack

ACTTLQTB	Quick Punchdown Tool with Cut Module
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ACTTLQTBCM	Cut Module
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For Specific Angled Jack Panel only

ACTFSPUNCH110	Fast Punchdown Tool with 110 Cut Module
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ACTFSMODULE180	110 Cut Module
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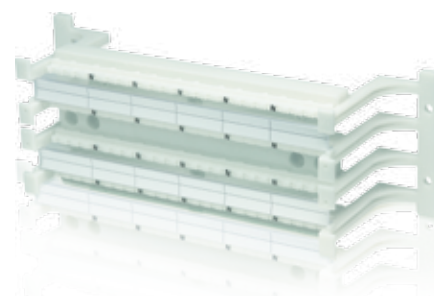
Note: For details, please contact on sale office

Actassi Cat.6 110 System

The Cat.6 110 Wiring Block is a popular way of terminating cables for cross connecting data and voice. It is used in either a rack or wall mounted situation. The base block is where the riser/horizontal cable is terminated and a 110 connector is then placed over the terminated pairs. This now allows access for jumper wires or 110 patch cords to cross connect.

The wall-mount blocks are available in 48, 96 and 288-Pair with legs; rack mounted blocks is supplied with back panel (1U~3U) available in 96, 192 and 288-pair.

The 110 connectors is available in 4-Pair size. The termination of cable on 110 wiring blocks is achieved with the use of speedy 4-Pair termination tool. The 4-Pair tool can only be used to terminate on the wiring block and not to terminate jumpers on the 110 connector.



Wall-Mount Blocks

ENVIRONMENTAL CHARACTERISTICS

Dielectric Withstanding Voltage	1000 Volts RMS@60Hz for 1 min
Temperature range	- Storage: -40 to 70 oC - Operational: -10 to 60 oC
Relative humidity (Operational)	-Maximum condensing: 93%

PHYSICAL & MECHANICAL

Housing	PC UL94V-0
IDC Terminal Material	- Phosphor Bronze alloy plated with 100 micro inch Sn - Operational: -10 to 60 oC
Durability	-200 cycles minimum (for block)

DIMENSIONS

	Wall-Mount	Rack-Mount
48-Pair	272mm(H) x 45mm(W) x 85mm(D)	N/A
96-Pair	272mm(H) x 88mm(W) x 85mm(D)	483mm(L) x 45mm(H)
192-Pair	N/A	483mm(L) x 88mm(H)
288-Pair	272mm(H) x 27mm(W) x 85mm(D)	483mm(L) x 133mm(H)

PRODUCT FEATURES

- Popular 110 connector technology meets TIA/EIA 568B 2.1 Cat.6 connecting hardware standards
- Both available in wall-mount and rack-mount types
- Speedy 4-Pair punch down block base saving installation time and cost

CUSTOMER BENEFITS

- More cost-effective solution than RJ45 patching solutions
- Supports Category 6 performance
- Wire management available for jumpers and patch cords to prevent accidental disconnection
- Label holder and label for easy circuit identification

CATALOGUE NUMBER	DESCRIPTION
ACTC6110WMW48	Cat.6 110 block 48-pair with legs
ACTC6110WMW96	Cat.6 110 block 96-pair with legs
ACTC6110WMW288	Cat.6 110 block 288-pair with legs
ACTC6110RM96P	Rack Mount Cat.6 110 block 96-pair, 1U
ACTC6110RM192P	Rack Mount Cat.6 110 block 192-pair, 2U
ACTC6110RM288P	Rack Mount Cat.6 110 block 288-pair, 3U
ACTC6110BL4P	Cat.6 110 IDC 4-Pair
ACTC6110PDT4P	4-Pair Punch Down Tool

Actassi Cat.6 110 System Patch Cords

ENVIRONMENTAL CHARACTERISTICS

Pair Count	1-4 Pair individually color coded with filler and PVC jacket
Sequence	Wiring sequence T568 B
Durability	1,000 mating cycles
RJ45 Plug	Polycarbonate, FCC Part 68 Subpart F, UL 94V-0
Plug Boot	PVC
Contact Material	Phosphor bronze with 50 micro-inches gold over 100 micro-inches nickel



ACTC6110PC1PB1

PRODUCT FEATURES

- UL94V-0 fire retardant plastic
- 110-110 type and 110-RJ45 type are available
- Meets TIA/EIA-568-B.2-1 Category 6 Connecting Hardware standards

CUSTOMER BENEFITS

- Available in various lengths to assist in better cable management.
- Available in multi-pair configuration to cater to data, fax and voice applications

CATALOGUE NUMBER	DESCRIPTION
ACTC6110PC1PA1	Cat.6 110-110 Patch Cord, 1P, 1M
ACTC6110PC1PA2	Cat.6 110-110 Patch Cord, 1P, 2M
ACTC6110PC1PA3	Cat.6 110-110 Patch Cord, 1P, 3M
ACTC6110PC2PA1	Cat.6 110-110 Patch Cord, 2P, 1M
ACTC6110PC2PA2	Cat.6 110-110 Patch Cord, 2P, 2M
ACTC6110PC2PA3	Cat.6 110-110 Patch Cord, 2P, 3M
ACTC6110PC4PA1	Cat.6 110-110 Patch Cord, 4P, 1M
ACTC6110PC4PA2	Cat.6 110-110 Patch Cord, 4P, 2M
ACTC6110PC4PA3	Cat.6 110-110 Patch Cord, 4P, 3M
ACTC6110PC1PB1	Cat.6 110-RJ45 Patch Cord, 1P, 1M
ACTC6110PC1PB2	Cat.6 110-RJ45 Patch Cord, 1P, 2M
ACTC6110PC1PB3	Cat.6 110-RJ45 Patch Cord, 1P, 3M
ACTC6110PC2PB1	Cat.6 110-RJ45 Patch Cord, 2P, 1M
ACTC6110PC2PB2	Cat.6 110-RJ45 Patch Cord, 2P, 2M
ACTC6110PC2PB3	Cat.6 110-RJ45 Patch Cord, 2P, 3M
ACTC6110PC4PB1	Cat.6 110-RJ45 Patch Cord, 4P, 1M
ACTC6110PC4PB2	Cat.6 110-RJ45 Patch Cord, 4P, 2M
ACTC6110PC4PB3	Cat.6 110-RJ45 Patch Cord, 4P, 3M

Category 5e 110 Patch Cords

Category 5 110 Patch Cords complements the Connect 110 Wiring Block Solution. Cords are available in 1, 2 and 4-Pair configuration for data, fax and voice applications. Also available is RJ45 to 110 and 110 to raw end for direct termination. These cords are available in white and are used as jumper cords or end-user patch cords.

Category 5 110 Patch Cord supports both Category 5 and Category 5e.

TRANSMISSION SPECIFICATIONS

@100MHz	Product Specification	Cat 5e Standard
Crosstalk (-dB) - 2M	35.3	35.0
Crosstalk (-dB) - 5M	35.1	34.7
Crosstalk (-dB) - 10M	34.8	34.5
Return Loss (-dB)	20.0	18.0

MECHANICAL CHARACTERISTICS

Cable	
Gauge	FCC part 68, Subpart F and IEC-60603-7 compliant
Pair Count	4-Pair individually colour coded with filler and PVC jacket
Sequence	Wiring sequence T568 A/B
Durability	1,000 mating cycles
RJ45 Plug	Polycarbonate, FCC Part 68 Subpart F, UL 94V-0
Plug Boot	PVC
Contact Material	Phosphor bronze with 50 micro-inches gold over 100 micro-inches nickel
Electrical	
Dielectric Strength	100V RMS at 60Hz for 1 minute
Voltage Rating	150VAC maximum
Current Rating	1.5A maximum
Insulation	1MΩ minimum
Contact Resistance	10mΩ maximum

Please add "A" for T568A wiring and "B" for T568B wiring at the back of the part number during ordering.



ACT5E110PC1PA1

PRODUCT FEATURES

- UL Listed CM Fire rated jacketing.
- PE insulation on conductors.
- PVC outer jacket material.
- Available in multiple lengths and 1,2 and 4-pair configuration.

CUSTOMER BENEFITS

- Category 5e ANSI/TIA/EIA-568-C compliant.
- Available in various lengths to assist in better cable management.
- Available in multipair configuration to cater to data, fax and voice applications.

CATALOGUE NUMBER	DESCRIPTION
ACT5E1100PC1PA1	Category 5e, 1-Pair, 110 to 110 Patch Cord, 1.0m
ACT5E1100PC1PA2	Category 5e, 1-Pair, 110 to 110 Patch Cord, 2.0m
ACT5E1100PC1PA3	Category 5e, 1-Pair, 110 to 110 Patch Cord, 3.0m
ACT5E1100PC2PA1	Category 5e, 2-Pair, 110 to 110 Patch Cord, 1.0m
ACT5E1100PC2PA2	Category 5e, 2-Pair, 110 to 110 Patch Cord, 2.0m
ACT5E1100PC2PA3	Category 5e, 2-Pair, 110 to 110 Patch Cord, 3.0m
ACT5E1100PC4PA1	Category 5e, 4-Pair, 110 to 110 Patch Cord, 1.0m
ACT5E1100PC4PA2	Category 5e, 4-Pair, 110 to 110 Patch Cord, 2.0m
ACT5E1100PC4PA3	Category 5e, 4-Pair, 110 to 110 Patch Cord, 3.0m

Please add "A" for T568A wiring and "B" for T568B wiring at the back of the part number during ordering

110 Connector System

The 110 Wiring Block is an extremely popular way of terminating cables for cross connecting data and voice. It is used in either a rack or wall mounted situation. The base block is where the riser/horizontal cable is terminated and a 110 connector is then placed over the terminated pairs. This now allows access for jumper wires or 110 Patch cords to cross connect. The wall mount is available with or without legs to allow room behind the block for cable entry and to stand off from the wall.

The blocks are available in 50,100 and 300-Pair with legs. Blocks without legs are available in 50 and 100-Pair configurations. The 110 connectors are available in 4 and 5-Pair sizes. The termination of cable on 110 wiring blocks is achieved with the use of 110 tools. Use either the single contact tool or the speedy 5-Pair termination tool. Both tools have a cut-off mechanism. Both can be used on the wiring block bases (for cable termination) as well as the top of the IDC contact block (for jumpering). The 5-Pair tool can only be used to terminate on the wiring block and not to terminate jumpers on the 110 connector.

DIMENSIONS

50-Pair without Legs	
Physical Size	52mm(H) x 216mm(W) x 36mm(D)
Shipping Weight	80g
50-Pair with Legs	
Physical Size	46mm(H) x 272mm(W) x 85mm(D)
Shipping Weight	115g
100-Pair without Legs	
Physical Size	88mm(H) x 216mm(W) x 36mm(D)
Shipping Weight	190g
100-Pair with Legs	
Physical Size	92mm(H) x 273mm(W) x 82mm(D)
Shipping Weight	260g
300-Pair with Legs	
Physical Size	280mm(H) x 273mm(W) x 82mm(D)
Shipping Weight	790g
Cable Management Panel	
Physical Size	45mm(H) x 215mm(W) x 65mm(D)
Shipping Weight	75g



ACTCSE110WMN100

PRODUCT FEATURES

- Popular 110 connector technology.
- Available with or without legs for the Block Base.
- Speedy 5-Pair punch down Block Base saving installation time and cost.
- Suitable for jumper wire or patch cords.
- 4 and 5-Pair 110 connectors available.

CUSTOMER BENEFITS

- More cost-effective solution than RJ45 patching solutions.
- Supports Category 5e performance.
- Wire management available for jumpers and patch cords to prevent accidental disconnection.
- Label holder and label for easy circuit identification.
- 1,2 and 4-Pair patch cords available for data, fax and voice applications.

CATALOGUE NUMBER	DESCRIPTION
Category 5E	
ACTCSE110WMN50	50-Pair, Base Connector, without Legs
ACTCSE110WMW50	50-Pair, Base Connector, with Legs
ACTCSE110WMN100	100-Pair, Base Connector, without Legs
ACTCSE110WMW100	100-Pair, Base Connector, with Legs
ACT110CMP	110 Cable Management Panel
ACTCSE110BL4P	4-Pair Connector (100 pcs/bag)
ACTCSE110BL5P	5-Pair Connector (100 pcs/bag)
ACTCSE110BL45P	4 and 5-Pair Connector Kit (for 100-Pair) (20xC4 + 4xC5)
ACTCSE110WMN50K	110 Kit, 50-Pair Base and 10xC4 + 2xC5 Connector, without Legs
ACTCSE110WMW50K	110 Kit, 50-Pair Base and 10xC4 + 2xC5 Connector, with Legs
ACTCSE110WMN100K	110 Kit, 100-Pair Base and 20xC4 + 4xC5 Connector, without Legs
ACTCSE110WMW100K	110 Kit, 100-Pair Base and 20xC4 + 4xC5 Connector, with Legs
ACTCSE110RM100P	100-Pair, 19" Rack Mount
ACTCSE110PDT4P	4-Pair Punch Down Tool (for Cat5E 110 only)

Category 5e 110-RJ45 Patch Cords

Category 5 110-RJ45 Patch Cords complements the Connect 110 Wiring Block Solution. Cords are available in 1, 2 and 4-Pair configuration for data, fax and voice applications. Also available is RJ45 to 110 and 110 to raw end for direct termination. These cords are available in white and are used as jumper cords or end-user patch cords.

Category 5 110-RJ45 Patch Cord supports both Category 5 and Category 5e.

TRANSMISSION SPECIFICATIONS

@100MHz	Product Specification	Cat 5e Standard
Crosstalk (-dB) - 2M	35.3	35.1
Crosstalk (-dB) - 5M	35.3	34.8
Crosstalk (-dB) - 10M	35.1	34.6
Return Loss (-dB)	20.0	18.0

MECHANICAL CHARACTERISTICS

Cable	
Gauge	24AWG (710.20mm)
Pair Count	HDPE Insulation
Sequence	T568 A/B
Durability	2,000 mating cycles
RJ45 Plug	UL 94V-2
Plug Boot	None
Electrical	
Dielectric Strength	AC-500V / 1 minute
Voltage Rating	300V DC maximum
Current Rating	1A
Insulation	DC 300V/5m
Contact Resistance	20mΩ maximum



ACT5E110PC1PB1

PRODUCT FEATURES

- UL Listed CM Fire rated jacketing.
- PE insulation on conductors.
- PVC outer jacket material.
- Available in multiple lengths and 1,2 and 4-pair configuration.

CUSTOMER BENEFITS

- Category 5e ANSI/TIA/EIA-568-C compliant.
- Available in various lengths to assist in better cable management.
- Available in multipair configuration to cater to data, fax and voice applications.

CATALOGUE NUMBER	DESCRIPTION
ACT5E110PC1PB1	Category 5e, 110-RJ45, 1-Pair, Patch Cord, 1.0m
ACT5E110PC1PB2	Category 5e, 110-RJ45, 1-Pair, Patch Cord, 2.0m
ACT5E110PC1PB3	Category 5e, 110-RJ45, 1-Pair, Patch Cord, 3.0m
ACT5E110PC2PB1	Category 5e, 110-RJ45, 2-Pair, Patch Cord, 1.0m
ACT5E110PC2PB2	Category 5e, 110-RJ45, 2-Pair, Patch Cord, 2.0m
ACT5E110PC2PB3	Category 5e, 110-RJ45, 2-Pair, Patch Cord, 3.0m
ACT5E110PC4PB1	Category 5e, 110-RJ45, 4-Pair, Patch Cord, 1.0m
ACT5E110PC4PB2	Category 5e, 110-RJ45, 4-Pair, Patch Cord, 2.0m
ACT5E110PC4PB3	Category 5e, 110-RJ45, 4-Pair, Patch Cord, 3.0m

Distribution Frames

The Distribution Frames are available for use as a Campus Distributor or Building Distributor (MDFs), Floor Distributor (IDF) or Final Distribution Point (FDP).



ACT3100F250MDF

PRODUCT FEATURES

- Made from high-quality stainless steel.
- Bundled with label holders.
- Moulded plastic covers are optional.

CUSTOMER BENEFITS

- Available in various sizes.
- Easy installation and management.

CATALOGUE NUMBER	DESCRIPTION
ACT3100F250MDF	250-Pair Frame, Accommodates 25 Modules & 2 Label Holders
ACT3100F500MDF	500-Pair Frame, Accommodates 50 Modules & 5 Label Holders

Distribution Enclosures

The Distribution Enclosures can be used as either a Horizontal Cross-Connect (HC), Floor Distributor (IDF) or a Final Distribution Point (FDP). Weatherproof Enclosures for use as Campus or Building Distributors (MDF) are also available. Record cards and keyed locks are included.

TECHNICAL SPECIFICATION

Module Size	10/20/30-Pair
Dimensions	105mm(H) x 152mm(W) x 56mm(D)
Base/Cover	ABS/ABS UL94V-0



ACT3100E30IDF

PRODUCT FEATURES

- Category 3 compliant.
- Permanent services are hardwired rather than patched.
- Accepts 22-24AWG diameter conductors.

CUSTOMER BENEFITS

- Suitable for flooring or consolidation voice connection.
- Water proof and key locked enclosure.

CATALOGUE NUMBER	DESCRIPTION
ACT3100E30IDF	30-Pair Enclosure, Accommodates 3 Modules
ACT3100E100IDF	100-Pair Enclosure, Accommodates 10 Modules

Connection Modules

The Connection Modules are Krone Backmount Frame compatible. Accessories available add further convenience and safety to the Voice Connection Range.

ELECTRICAL SPECIFICATIONS

10-Pair Connection Module

Housing/Base	PBT/PBT UL94V-0
Contacts	Phosphor Bronze (0.5mm)
Plating	Silver (20µ) over Nickel
Wire Size	0.4 ~ 0.8mm
Housing Colour	Grey

10-Pair Disconnection Module

Housing/Base	PBT/PBT UL94V-0
Contacts	Phosphor Bronze (0.5mm)
Plating	Silver (20µ) over Nickel
Wire Size	0.4 ~ 0.8mm
Housing Colour	White

10-Pair TRC Earth Module

Housing/Base	PBT/PBT UL94V-0
Contacts	Phosphor Bronze (0.5mm)
Plating	Silver (100µ) over Nickel
Wire Size	0.4 ~ 0.8mm
Housing Colour	Red

10-Pair Over-Voltage Magazine

Housing/Base	PBT/PBT UL94V-0
Contacts	Phosphor Bronze (0.5mm)
Plating	Silver (20µ) over Nickel
Housing Colour	Grey



ACT3100VDM10



ACT3100VEM10

PRODUCT FEATURES

- Category 3 compliant.
- Permanent services are hardwired rather than patched.
- Accepts 22-24AWG diameter conductors.

CUSTOMER BENEFITS

- Low cost solution for voice connection.
- Connector modules and accessories are Krone compatible.

CATALOGUE NUMBER	DESCRIPTION
ACT3100VCM10	10-Pair Connection Module, with Numbers 1-10, 10-100
ACT3100VDM10	10-Pair Disconnection Module, with Numbers 1-10, 10-100
ACT3100VEM10	TRC Earth Module, 38 Wire, Red
ACT3100LABHLDRH	Label Holder, 1 Position, Hinged

Actassi Fiber Solution

Indoor Building Cables, LSZH Indoor Duct Cables

The Actassi Indoor Building Cable is designed to provide superior optical performance. These flexible, flame retardant cables are for use indoors. All cables use high quality Single-Mode or Multi-Mode fibres. Each fibre is coated to 900 microns with durable, protective material. Buffers are colour-coded. The buffered fibres are surrounded by aramid yarns for strength, and are covered with Low Smoke Zero Halogen (LSZH) Sheath to meet tough emission control.



ACTNDTB04SM9FR

FIBRE SELECTIONS

Single-Mode	OS2, BISMF (Bend-Insensitive G.657A2)
Multi-Mode	OM1, OM2, OM1+, OM2+, OM3, OM4

CABLE SHEATH COLOURS

Single-Mode	Yellow
Multi-Mode	Orange (OM1, OM2, OM1+, OM2+) Aqua (OM3, OM4)

PRODUCT FEATURES

- High quality and compact design.
- Small diameter and bend radius.
- Compliant with Bellcore GR-409-CORE and ANSI/TIA/EIA-568C, ISO/IEC 11801 Standards.

CUSTOMER BENEFITS

- Easy to terminate.
- Easy installation in space constrained area.

CABLE TRANSMISSION

Items	Attenuation				1Gb/s ethernet link distance (MAX)		10Gb/s ethernet link distance (MAX)		Bandwidth	
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	850nm	850nm	1300nm	
Fiber Type	850nm	1300nm	1310nm	1550nm	850nm	1300nm	850nm	850nm	1300nm	
Unit	dB/km	dB/km	dB/km	dB/km	m	m	m	MHz-KM	MHz-KM	
OS2	-	-	≤0.5	≤0.4	-	-	-	-	-	
BISMF	-	-	≤0.5	≤0.4	-	-	-	-	-	
OM2	≤3.5	≤1.5	-	-	550	550	86	≥500	≥500	
OM1	≤3.5	≤1.5	-	-	275	550	35	≥200	≥500	
OM2+	≤3.5	≤1.5	-	-	750	2000	110	≥500	≥1000	
OM1+	≤3.5	≤1.5	-	-	500	1000	65	≥200	≥600	
OM3	≤3.5	≤1.5	-	-	1000	-	300	≥1500	≥500	
OM4	≤3.5	≤1.5	-	-	1100	-	550	≥3500	≥500	

CONSTRUCTION DATA

Tight buffer fiber Diameter	900±50µm
Tight buffer fiber Color	1.Blue, 2.Orange, 3.Green, 4.Brown, 5.Grey, 6.White, 7.Red, 8.Black, 9.Yellow, 10.Violet, 11.Pink, 12.Aqua
Core reinforce	Aramid yarn
Out jacket material	LSZH

TECHNICAL DATA-PHYSICAL

Fiber count	2	4	6	8	10	12
Cable diameter(mm) ±0.2	3.2	4.8	5.1	5.6	5.8	6.2
Jacket thickness(mm) ±0.1	0.5	0.7	0.7	0.8	0.8	0.9
Cable weight(kg/km)	11.3	21.6	25.5	31.4	35.0	40.3
Temperature rating	Operation	-20°C~+ 60°C				
	Storage	-20°C~+ 60°C				

TECHNICAL DATA-MECHANICAL

Max. loading(N) (IEC794-1)	Installation	660N
	Operation	220N
Min bending radius (IEC794-1)	with load(mm)	20xD(10xD for Bend Insensitive fiber)
	without load(mm)	10xD(5xD for Bend Insensitive fiber)
Crush resistance (IEC794-1)		1000N/100mm

Indoor Building Cables, LSZH

Indoor Duct Cables

CONSTRUCTION DATA

Tight buffer fiber Diameter	900±50µm	
Tight buffer fiber Color	1.Blue, 2.Orange, 3.Green, 4.Brown, 5.Grey, 6.White	1.Blue, 2.Orange, 3.Green, 4.Brown, 5.Grey, 6.White, 7.Red, 8.Black, 9.Yellow, 10.Violet, 11.Pink, 12.Aqua
Core reinforce	Aramid yarn	
Subunit color code	The units have sequential numbering print on the surface for identification	
Central strength member	All dielectric	
Out jacket material	LSZH	
Out jacket thickness	1.1mm±0.1mm	

TECHNICAL DATA-PHYSICAL

Fiber count	14-24	26-30	32-36	38-48
Cable diameter(mm) ±0.5	10.4	12.4	13.5	14.7
Jacket thickness(mm) ±0.2	3.5	3.5	3.5	5.0
FRP diameter(mm) ±0.1	1.52	2.5	2.5	2.25
CSM diameter(mm) ±0.2	-	-	3.6	-
Subunit number	4	5	6	4
Cable weight (kg/km)	96	149	185	177
Temperature rating	Operation	-20°C~+ 60°C		
	Storage	-20°C~+ 60°C		

TECHNICAL DATA-MECHANICAL

Max. loading(N) (IEC794-1)	Installation	1320N
	Operation	400N
Min bending radius (IEC794-1)	with load(mm)	20xD
	without load(mm)	10xD
Crush resistance (IEC794-1)		1000N/100mm

CATALOGUE NUMBER	DESCRIPTION
ACTNDxxSM9LS	Indoor Building, xx-Core, 9/125µm Single-Mode OS2, LSZH
ACTNDxxSMBLS	Indoor Building, xx-Core, 9/125µm Single-Mode Bend-Insensitive, LSZH
ACTNDxxMM6LS	Indoor Building, xx-Core, 62.5/125µm Multi-Mode OM1, LSZH
ACTNDxxMM6HLS	Indoor Building, xx-Core, 62.5/125µm Multi-Mode OM1 Plus, LSZH
ACTNDxxMM5LS	Indoor Building, xx-Core, 50/125µm Multi-Mode OM2, LSZH
ACTNDxxMM5HLS	Indoor Building, xx-Core, 50/125µm Multi-Mode OM2 Plus, LSZH
ACTNDT6xxMM5LS	10G Indoor Building, xx-Core, 50/125µm Multi-Mode OM3, LSZH
ACTNDxxMM5XLS	100G Indoor Building, xx-Core, 50/125µm Multi-Mode OM4, LSZH

Note : Where **xx** denotes fibre counts (e.g. 02/04/06/08/12/16/24/48)

Tight Buffer Building Cables Indoor Duct Cables

The Actassi Tight Buffer Building Cable is designed to provide superior optical performance. These flexible, flame retardant cables are for use indoors. All cables use high quality Single-Mode or Multi-Mode fibres. Each fibre is coated to 900 microns with durable, protective material. Buffers are colour-coded. The buffered fibres are surrounded by aramid yarns for strength, and are covered with PVC. The cables meet the requirement for OFNR riser indoor types.



ACTNDB04MM5FR

FIBRE SELECTIONS

Single-Mode	OS2, BISMF (Bend-Insensitive G.657A2)
Multi-Mode	OM1, OM2, OM1+, OM2+, OM3, OM4

CABLE SHEATH COLOURS

Single-Mode	Yellow
Multi-Mode	Orange (OM1, OM2, OM1+, OM2+) Aqua (OM3, OM4)

PRODUCT FEATURES

- High quality and compact design.
- Small diameter and bend radius.
- Compliant with Bellcore GR-409-CORE and ANSI/TIA/EIA-568C, ISO/IEC 11801 Standards.

CUSTOMER BENEFITS

- Easy to terminate.
- Easy installation in space constrained area.

CABLE TRANSMISSION

Items	Attenuation				1Gb/s ethernet link distance (MAX)		10Gb/s ethernet link distance (MAX)		Bandwidth	
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	850nm	850nm	1300nm	
Fiber Type	dB/km	dB/km	dB/km	dB/km	m	m	m	MHz·KM	MHz·KM	
OS2	-	-	≤0.5	≤0.4	-	-	-	-	-	
BISMF	-	-	≤0.5	≤0.4	-	-	-	-	-	
OM2	≤3.5	≤1.5	-	-	550	550	86	≥500	≥500	
OM1	≤3.5	≤1.5	-	-	275	550	35	≥200	≥500	
OM2+	≤3.5	≤1.5	-	-	750	2000	110	≥500	≥1000	
OM1+	≤3.5	≤1.5	-	-	500	1000	65	≥200	≥600	
OM3	≤3.5	≤1.5	-	-	1000	-	300	≥1500	≥500	
OM4	≤3.5	≤1.5	-	-	1100	-	550	≥3500	≥500	

CONSTRUCTION DATA

Tight buffer fiber Diameter	900±50µm
Tight buffer fiber Color	1.Blue, 2.Orange, 3.Green, 4.Brown, 5.Grey, 6.White, 7.Red, 8.Black, 9.Yellow, 10.Violet, 11.Pink, 12.Aqua
Core reinforce	Aramid yarn
Out jacket material	pvc

TECHNICAL DATA-PHYSICAL

Fiber count	2	4	6	8	10	12
Cable diameter(mm) ±0.2	4.1	4.8	5.1	5.6	5.8	6.2
Jacket thickness(mm) ±0.1	0.6	0.6	0.7	0.7	0.7	0.8
Cable weight(kg/km)	16	18.6	22.6	25.2	31.8	33.4
Temperature rating	Operation	-20°C~+ 60°C				
	Storage	-20°C~+ 60°C				

TECHNICAL DATA-MECHANICAL

Max. loading(N) (IEC794-1)	Installation	660N
	Operation	220N
Min bending radius (IEC794-1)	with load(mm)	20xD(10xD for Bend Insensitive fiber)
	without load(mm)	10xD(5xD for Bend Insensitive fiber)
Crush resistance (IEC794-1)		1000N/100mm

Tight Buffer Building Cables

Indoor Duct Cables

CONSTRUCTION DATA

Tight buffer fiber Diameter	900±50µm	
Tight buffer fiber Color	1.Blue, 2.Orange, 3.Green, 4.Brown, 5.Grey, 6.White	1.Blue, 2.Orange, 3.Green, 4.Brown, 5.Grey, 6.White, 7.Red, 8.Black, 9.Yellow, 10.Violet, 11.Pink, 12.Aqua
Core reinforce	Aramid yarn	
Subunit color code	The units have sequential numbering print on the surface for identification	
Central strength member	All dielectric	
Out jacket material	PVC	
Out jacket thickness	1.1mm±0.1mm	

TECHNICAL DATA-PHYSICAL

Fiber count	14-24	26-30	32-36	48
Cable diameter(mm) ±0.5	13.2	14.4	15.6	15.9
Jacket thickness(mm) ±0.2	4.4	4.4	4.4	5.5
FRP diameter(mm) ±0.1	2.0	2.0	2.5	2.5
CSM diameter(mm) ±0.2	-	3.2	4.4	-
Subunit number	4	5	6	4
Cable weight (kg/km)	127	155	187	174
Temperature rating	Operation	-20°C~+ 60°C		
	Storage	-20°C~+ 60°C		

TECHNICAL DATA-MECHANICAL

Max. loading(N) (IEC794-1)	Installation	1320N
	Operation	400N
Min bending radius (IEC794-1)	with load(mm)	20xD
	without load(mm)	10xD
Crush resistance (IEC794-1)		1000N/100mm

CATALOGUE NUMBER	DESCRIPTION
ACTNDBxxSM9FR	Tight Buffer, xx-Core, 9/125µm Single-Mode OS2, OFNR
ACTNDBxxSMBFR	Tight Buffer,, xx-Core, 9/125µm Single-Mode Bend-Insensitive, OFNR
ACTNDBxxMM6FR	Tight Buffer,, xx-Core, 62.5/125µm Multi-Mode OM1, OFNR
ACTNDBxxMM6HFR	Tight Buffer,, xx-Core, 62.5/125µm Multi-Mode OM1 Plus, OFNR
ACTNDBxxMMSFR	Tight Buffer,, xx-Core, 50/125µm Multi-Mode OM2, OFNR
ACTNDBxxMMSHFR	Tight Buffer,, xx-Core, 50/125µm Multi-Mode OM2 Plus, OFNR
ACTNDBTgxxMM5FR	10G Tight Buffer,, xx-Core, 50/125µm Multi-Mode OM3, OFNR
ACTNDBxxMMSXFR	100G Tight Buffer,, xx-Core, 50/125µm Multi-Mode OM4, OFNR

Note : Where **xx** denotes fibre counts (e.g. 02/04/06/08/12/16/24/48)

Unitube Non-Armoured Cables Duct, Aerial Cables

The Actassi Unitube Non-Armoured Cable is housed in a loose tube made of a high modulus plastic. The tube is filled with a water-resistant filling compound. Over the tube, water-blocking material is applied to keep the cable watertight. Two parallel steel wires are placed at the two sides of the cable. The cable is covered with a polyethylene (PE) sheath or flame-retardant sheath as option.



ACTUDUTNA04SM9

PRODUCT FEATURES

- Accurate fibre excess length.
- High strength loose tube.
- Two parallel steel wires.
- PE sheath.
- Comply with IEC 60332-1
- Small diameter, lightweight and hassle-free installation.
- Long delivery length.

CUSTOMER BENEFITS

- Accurate fibre excess length ensures good mechanical and temperature performance.
- High strength loose tube is hydrolysis resistant and special tube filling compound ensures critical protection of fibre.
- Two parallel steel wires ensure tensile strength.
- PE sheath protects cable from ultraviolet radiation.
- Flame retardant sheath protects cable from fire.

TECHNICAL DATA-TRANSMISSION

Items	Attenuation				1Gb/s ethernet link distance (MAX)		10Gb/s ethernet link distance (MAX)		Bandwidth	
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	850nm	850nm	1300nm	
Fiber Type	dB/km	dB/km	dB/km	dB/km	m	m	m	MHz·KM	MHz·KM	
Unit										
OS2	-	-	≤0.5	≤0.4	-	-	-	-	-	
BISMF	-	-	≤0.5	≤0.4	-	-	-	-	-	
OM2	≤3.5	≤1.5	-	-	550	550	86	≥500	≥500	
OM1	≤3.5	≤1.5	-	-	275	550	35	≥200	≥500	
OM2+	≤3.5	≤1.5	-	-	750	2000	110	≥500	≥1000	
OM1+	≤3.5	≤1.5	-	-	500	1000	65	≥200	≥600	
OM3	≤3.5	≤1.5	-	-	1000	-	300	≥1500	≥500	
OM4	≤3.5	≤1.5	-	-	1100	-	550	≥3500	≥500	

Unitube Non-Armoured Cables Duct, Aerial Cables

OUTDOOR CABLES

Fibre Count	2-12	14-24
Cable Sheath	PE	

CONSTRUCTION DATA

Fiber Colour	1.Blue, 2.Orange, 3.Green, 4.Brown, 5.Grey, 6.White, 7.Red, 8.Black, 9.Yellow, 10.Violet, 11.Pink, 12.Aqua			
Loose Tube Material	PBT loose tube with jelly filling			
Identification Yarn Colour (for 24 cores)	1.Grey, 2.White			
Water Blocking Material	Water blocking tape or yarn			
Out jacket material	PE	LSZH	PE	LSZH
Jacket Thickness (mm)	2.4±0.2			

TECHNICAL DATA-PHYSICAL

Fiber count	28±0.1		38±0.1	
Cable diameter(mm)	9.0±0.2	9.2±0.2	9.6±0.2	9.8±0.2
Cable weight (kg/km)	77	109	84	122
Steel Wire Diameter (mm)	1.2			
Temperature rating	Operation	-40° C~+ 70° C		
	Storage	-40° C~+ 70° C		

TECHNICAL DATA-MECHANICAL

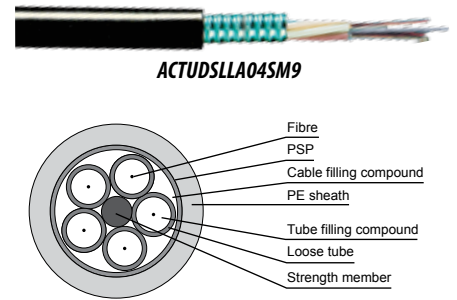
Max. loading (N)	Installation	660
	Operation	200
Crush Resistance	1000N/100mm	

CATALOGUE NUMBER	DESCRIPTION
ACTUDUTNAxxSM9PE	Unitube Non-Armoured, xx-Core, 9/125µm Single-Module OS2, PE
ACTUDUTNAxxSM9BPE	Unitube Non-Armoured, xx-Core, 9/125µm Single-Module Bend-Insensitive, PE
ACTUDUTNAxxMM6PE	Unitube Non-Armoured, xx-Core, 62.5/125µm Multi-Module OM1, PE
ACTUDUTNAxxMM6HPE	Unitube Non-Armoured, xx-Core, 62.5/125µm Multi-Module OM1 Plus, PE
ACTUDUTNAxxMM5PE	Unitube Non-Armoured, xx-Core, 50/125µm Multi-Module OM2, PE
ACTUDUTNAxxMM5HPE	Unitube Non-Armoured, xx-Core, 50/125µm Multi-Module OM2 Plus, PE
ACTUDUTNAxxMM5TPE	10G Unitube Non-Armoured, xx-Core, 50/125µm Multi-Module OM3, PE
ACTUDUTNAxxMM5XPE	100G Unitube Non-Armoured, xx-Core, 50/125µm Multi-Module OM4, PE

Note : Where xx denotes fibre counts (e.g. 04/06/08/12/16/24)

Stranded Loose Tube Light-Armoured Cables

The Actassi Stranded Loose Tube Light-Armoured Cable is housed in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. A steel wire, sheathed with polyethylene (PE) is used for cables with high fibre counts and is located in the core centre to act as a metallic strength member. Tubes and fillers are stranded around the strength member into a compact and circular cable core. Polyethylene Steel Polyethylene (PSP) is longitudinally applied over the cable core, and the core is then filled with a filling compound to protect it from water ingress. The cable is covered with a PE sheath.



PRODUCT FEATURES

- Accurate fibre excess length.
- High strength loose tube.
- Specially designed compact structure.
- Crush resistant and flexible.
- Tight water-resistant measures - steel wire used as central strength member, loose tube filling compound, 100% cable core filling, PSP enhancing moisture-proofing and water-blocking material.

CUSTOMER BENEFITS

- Accurate fibre excess length ensures good mechanical and temperature performance.
- High strength loose tube is hydrolysis resistant and special tube filling compound ensures critical protection of fibre.
- Specially designed compact structure prevents loose tubes from shrinking.

TECHNICAL DATA-TRANSMISSION

Items	Attenuation				1Gb/s ethernet link distance (MAX)		10Gb/s ethernet link distance (MAX)		Bandwidth	
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	850nm	850nm	1300nm	
Fiber Type	dB/km	dB/km	dB/km	dB/km	m	m	m	MHz·KM	MHz·KM	
OS2	-	-	≤0.36	≤0.22	-	-	-	-	-	
BISMF	-	-	≤0.36	≤0.22	-	-	-	-	-	
OM2	≤3.0	≤1.0	-	-	550	550	86	≥500	≥500	
OM1	≤3.3	≤1.0	-	-	275	550	35	≥200	≥500	
OM2+	≤3.0	≤1.0	-	-	750	2000	110	≥500	≥1000	
OM1+	≤3.3	≤1.0	-	-	500	1000	65	≥200	≥600	
OM3	≤3.0	≤1.0	-	-	1000	-	300	≥1500	≥500	
OM4	≤3.0	≤1.0	-	-	1100	-	550	≥3500	≥500	

Stranded Loose Tube Light-Armoured Cables

OUTDOOR CABLES

Fibre Count	144-CORE (Max.)
Cable Sheath	PE (Black)

CONSTRUCTION DATA

Fiber Colour	1.Blue, 2.Orange, 3.Green, 4.Brown, 5.Grey, 6.White, 7.Red, 8.Black, 9.Yellow, 10.Violet, 11.Pink, 12.Aqua
Loose Tube Material	PBT loose tube with jelly filling
Loose Tube Colour	1.Blue, 2.Orange, 3.Green, 4.Brown, 5.Grey, 6.White, 7.Red, 8.Black, 9.Yellow, 10.Violet, 11.Pink, 12.Aqua
Water Blocking Material	Cable filling compound
Out jacket material	PE
Jacket Thinkness (mm)	1.6±0.2

TECHNICAL DATA-PHYSICAL

Fiber count	2-30	32-36	38-60	62-72	74-96	98-120	122-144
Max. Fibre per Tube	6		12				
Unitube Diameter (mm)	1.8±0.1			2.3±0.1			
Kiise Tube Number	1-5	6	4-5	6	7-8	9-10	11-12
Filler Number	4-0	0	1-0	0	1-0	1-0	1-0
Steel Wire Diameter (mm)	1.5±0.1	2.0±0.1	1.8±0.1	2.0±0.1	2.0±0.1	2.0±0.1	2.5±0.1
CSM Diameter (mm)	-	-	-	2.5±0.2	4.0±0.2	7.2±0.2	7.2±0.2
Cable diameter(mm)	9.5±0.3	10.0±0.3	11.0±0.3	12.0±0.3	13.6±0.3	15.0±0.3	16.9±0.3
Cable weight (Kg/Km)	100	119	136	155	192	227	277
Temperature rating	Operation	-40°C~+ 70°C					
	Storage	-40°C~+ 70°C					

TECHNICAL DATA-MECHANICAL

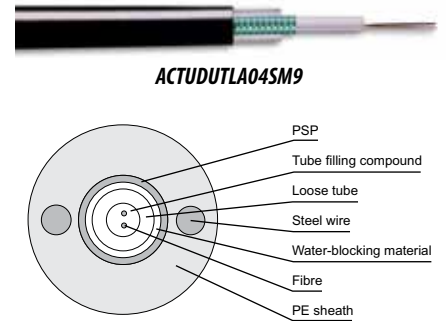
Max. loading (N)	Installation	1500N	3000
	Operation	600N	1000
Min. Bend Radius (mm)	Long-term	10xD	10xD
	Short-term	20xD	20xD
Crush Resistance	1000N/100mm		

CATALOGUE NUMBER	DESCRIPTION
ACTUDSLLAxxSM9PE	Stranded Loose Tube Light-Armoured, xx-Core, 9/125µm Single-Module OS2, PE
ACTUDSLLAxxSM9BPE	Stranded Loose Tube Light-Armoured, xx-Core, 9/125µm Single-Module Bend-Insensitive, PE
ACTUDSLLAxxMM6PE	Stranded Loose Tube Light-Armoured, xx-Core, 62.5/125µm Multi-Module OM1, PE
ACTUDSLLAxxMM6HPE	Stranded Loose Tube Light-Armoured, xx-Core, 62.5/125µm Multi-Module OM1 Plus, PE
ACTUDSLLAxxMM5PE	Stranded Loose Tube Light-Armoured, xx-Core, 50/125µm Multi-Module OM2, PE
ACTUDSLLAxxMM5HPE	Stranded Loose Tube Light-Armoured, xx-Core, 50/125µm Multi-Module OM2 Plus, PE
ACTUDSLLAxxMM5TPE	10G Stranded Loose Tube Light-Armoured, xx-Core, 50/125µm Multi-Module OM3, PE
ACTUDSLLAxxMM5XPE	100G Stranded Loose Tube Light-Armoured, xx-Core, 50/125µm Multi-Module OM4, PE

Note : Where xx denotes fibre counts (e.g. 04/06/08/12/16/24/30/36/48/72/96/144)

Unitube Light-Armoured Cables Direct Buried Cables

The Actassi Unitube Light-Armoured Cable features a loose tube, made of a high modulus plastic. The tube is filled with a water-resistant filling compound and is longitudinally wrapped with a layer of Polyethylene Steel Polyethylene (PSP). Between the PSP and the loose tube, water-blocking material is applied to keep the cable compact and watertight. Two parallel steel wires are placed at the two sides of the steel tape. The cable is covered with a polyethylene (PE) sheath or flame retardant sheath as option.



PRODUCT FEATURES

- Accurate fibre excess length.
- High strength loose tube.
- Specially designed compact structure and PE sheath.
- Crush resistant and flexible.
- PSP enhances the cable's crush-resistance, impact-resistance and moisture-proofing.
- Two parallel steel wires ensure tensile strength.
- Small diameter, lightweight and hassle-free installation.
- Long delivery length.
- Comply with IEC 60332-1

CUSTOMER BENEFITS

- Accurate fibre excess length ensures good mechanical and temperature performance.
- High strength loose tube is hydrolysis resistant and special tube filling compound ensures critical protection of fibre.
- Specially designed compact structure prevents loose tubes from shrinking.
- PE sheath protects cable from ultra-violet radiation.
- Flame-retardant sheath protects cable from fire.

TECHNICAL DATA-TRANSMISSION

Items	Attenuation				1Gb/s ethernet link distance (MAX)		10Gb/s ethernet link distance (MAX)		Bandwidth	
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	850nm	850nm	1300nm	
Fiber Type	dB/km	dB/km	dB/km	dB/km	m	m	m	MHz·KM	MHz·KM	
Unit	-	-	≤0.36	≤0.22	-	-	-	-	-	
OS2	-	-	≤0.36	≤0.22	-	-	-	-	-	
BISMF	-	-	≤0.36	≤0.22	-	-	-	-	-	
OM2	≤3.0	≤1.0	-	-	550	550	86	≥500	≥500	
OM1	≤3.3	≤1.0	-	-	275	550	35	≥200	≥500	
OM2+	≤3.0	≤1.0	-	-	750	2000	110	≥500	≥1000	
OM1+	≤3.3	≤1.0	-	-	500	1000	65	≥200	≥600	
OM3	≤3.0	≤1.0	-	-	1000	-	300	≥1500	≥500	
OM4	≤3.0	≤1.0	-	-	1100	-	550	≥3500	≥500	

Unitube Light-Armoured Cables Direct Buried Cables

INDOOR / OUTDOOR CANLES

Fibre Count	2-12	14-24
Cable Sheath	PE(Black)	

CONSTRUCTION DATA

Fiber Colour	1.Blue, 2.Orange, 3.Green, 4.Brown, 5.Grey, 6.White, 7.Red, 8.Black, 9.Yellow, 10.Violet, 11.Pink, 12.Aqua	
Loose Tube Material	PBT loose tube with jelly filling	
Identification Yarn Colour (for 24 cores)	1.Grey, 2.White	
Water Blocking Material	Water blocking tape or yarn	
Out jacket material	PE	PE
Jacket Thinkness (mm)	2.2±0.2	2.4±0.2

TECHNICAL DATA-PHYSICAL

Fiber count	2.6±0.1	3.8±0.1
Cable diameter(mm)	0.8±0.2	11.5±0.2
Cable weight (kg/km)	82	128
Steel Wire Diameter (mm)	1.2	
Temperature rating	Operation	-40° C~+ 70° C
	Storage	-40° C~+ 70° C

TECHNICAL DATA-MECHANICAL

Max. loading (N)	Installation	1500N
	Operation	600N
Crush Resistance	1000N/100mm	

CATALOGUE NUMBER	DESCRIPTION
ACTUDTLAxxSM9PE	Unitube Light-Armoured, xx-Core, 9/125µm Single-Module OS2, PE
ACTUDTLAxxSM9BPE	Unitube Light-Armoured, xx-Core, 9/125µm Single-Module Bend-Insensitive, PE
ACTUDTLAxxMM6PE	Unitube Light-Armoured, xx-Core, 62.5/125µm Multi-Module OM1, PE
ACTUDTLAxxMM6HPE	Unitube Light-Armoured, xx-Core, 62.5/125µm Multi-Module OM1 Plus, PE
ACTUDTLAxxMM5PE	Unitube Light-Armoured, xx-Core, 50/125µm Multi-Module OM2, PE
ACTUDTLAxxMM5HPE	Unitube Light-Armoured, xx-Core, 50/125µm Multi-Module OM2 Plus, PE
ACTUDTLAxxMM5TPE	10G Unitube Light-Armoured, xx-Core, 50/125µm Multi-Module OM3, PE
ACTUDTLAxxMM5XPE	100G Unitube Light-Armoured, xx-Core, 50/125µm Multi-Module OM4, PE

Note : Where xx denotes fibre counts (e.g. 04/06/08/12/16/24)

Stranded Loose Tube Armoured Cables

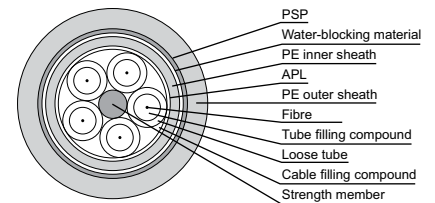
Direct Buried Cables

The Actassi Stranded Loose Tube Armoured Cable (with moisture barrier) is housed in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. A steel wire, sheathed with polyethylene (PE) is used for cables with high fibre counts and is located in the core centre to act as a metallic strength member.

Tubes and fillers are stranded around the strength member into a compact and circular cable core. An Aluminium Polyethylene Laminate (APL) is applied around the cable core, which is then filled with filling compound to protect it from water-ingress. The cable core is covered with a thin PE inner sheath. After the Polyethylene Steel Polyethylene (PSP) is longitudinally applied over the inner sheath, the cable is covered with a PE outer sheath.



ACTUDSLAM04SM9



PRODUCT FEATURES

- Accurate fibre excess length.
- High strength loose tube.
- Specially designed compact structure.
- Crush resistant and flexible.
- Tight water-resistant measures - steel wire used as central strength member, loose tube filling compound, 100% cable core filling, APL moisture barrier, PSP enhanced moisture-proofing and water-blocking material.

CUSTOMER BENEFITS

- Accurate fibre excess length ensures good mechanical and temperature performance.
- High strength loose tube is hydrolysis resistant and special tube filling compound ensures critical protection of fibre.
- Specially designed compact structure prevents loose tubes from shrinking.

TECHNICAL DATA-TRANSMISSION

Items	Attenuation				1Gb/s ethernet link distance (MAX)		10Gb/s ethernet link distance (MAX)		Bandwidth	
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	850nm	850nm	1300nm	
Fiber Type	dB/km	dB/km	dB/km	dB/km	m	m	m	MHz·KM	MHz·KM	
OS2	-	-	≤0.36	≤0.22	-	-	-	-	-	
BISMF	-	-	≤0.36	≤0.22	-	-	-	-	-	
OM2	≤3.0	≤1.0	-	-	550	550	86	≥500	≥500	
OM1	≤3.3	≤1.0	-	-	275	550	35	≥200	≥500	
OM2+	≤3.0	≤1.0	-	-	750	2000	110	≥500	≥1000	
OM1+	≤3.3	≤1.0	-	-	500	1000	65	≥200	≥600	
OM3	≤3.0	≤1.0	-	-	1000	-	300	≥1500	≥500	
OM4	≤3.0	≤1.0	-	-	1100	-	550	≥3500	≥500	

Stranded Loose Tube Armoured Cables

Direct Buried Cables

Fibre Count	144-CORE (Max.)
Cable Sheath	PE (Black)

CONSTRUCTION DATA

Fiber Colour	1.Blue, 2.Orange, 3.Green, 4.Brown, 5.Grey, 6.White, 7.Red, 8.Black, 9.Yellow, 10.Violet, 11.Pink, 12.Aqua
Loose Tube Material	PBT loose tube with jelly filling
Loose Tube Colour	1.Blue, 2.Orange, 3.Green, 4.Brown, 5.Grey, 6.White, 7.Red, 8.Black, 9.Yellow, 10.Violet, 11.Pink, 12.Aqua
Water Blocking Material	Cable filling compound
Water Blocking Material	PSP CORRUGATED STEEL TAPE (0.25mm)
Out jacket material	PE
Inner Sheath Thickness (mm)	0.9±0.1
Outer Sheath Thickness (mm)	1.6±0.2

TECHNICAL DATA-PHYSICAL

Fiber count	2-36	38-60	62	74-96	98-120	122-144
Max. Fibre per Tube	6	12				
Unitube Diameter (mm)	1.8±0.1	2.3±0.1				
Kiise Tube Number	1-6	4-5	6	7-8	9-10	11-12
Filler Number	5-0	1-0	0	1-0	1-0	1-0
Steel Wire Diameter (mm)	2.0±0.1	2.0±0.1	2.0±0.1	2.0±0.1	2.0±0.1	2.5±0.1
CSM Diameter (mm)	-	-	2.5±0.2	4.0±0.2	5.4±0.2	7.2±0.2
Cable diameter(mm)	13.4±0.3	14.0±0.3	15.3±0.3	16.7±0.3	19.0±0.3	20.9±0.3
Cable weight (Kg/Km)	190	229	244	288	325	373
Temperature rating	Operation	-40° C~+ 70° C				
	Storage	-40° C~+ 70° C				

TECHNICAL DATA-MECHANICAL

Max. loading (N)	Installation	3000
	Operation	1000
Min. Bend Radius (mm)	Long-term	10xD
	Short-term	20xD
Crush Resistance		3000N/100mm

CATALOGUE NUMBER	DESCRIPTION
ACTUDSLAMxxSM9PE	Stranded Loose Armoured, xx-Core, 9/125µm Single-Module OS2, PE
ACTUDSLAMxxSM9BPE	Stranded Loose Armoured, xx-Core, 9/125µm Single-Module Bend-Insensitive, PE
ACTUDSLAMxxMM6PE	Stranded Loose Armoured, xx-Core, 62.5/125µm Multi-Module OM1, PE
ACTUDSLAMxxMM6HPE	Stranded Loose Armoured, xx-Core, 62.5/125µm Multi-Module OM1 Plus, PE
ACTUDSLAMxxMM5PE	Stranded Loose Armoured, xx-Core, 50/125µm Multi-Module OM2, PE
ACTUDSLAMxxMM5HPE	Stranded Loose Armoured, xx-Core, 50/125µm Multi-Module OM2 Plus, PE
ACTUDSLAMxxMM5TPE	10G Stranded Loose Armoured, xx-Core, 50/125µm Multi-Module OM3, PE
ACTUDSLAMxxMM5XPE	100G Stranded Loose Armoured, xx-Core, 50/125µm Multi-Module OM4, PE

Note : Where xx denotes fibre counts (e.g. 04/06/08/12/16/24/30/36/48/72/96/144)

Indoor/Outdoor LSZH Cables Duct Cables

The Actassi Indoor Outdoor LSZH Cable is a low smoke zero halogen (LSZH) cable that provides excellent anti-flame performance. The need for splicing between indoor and outdoor cables can be eliminated. The buffered tubes are surrounded by aramid yarns and are covered by a low smoke, flame-retardant jacket for protection. A direct outdoor to indoor transition can be completed with this single cable.

The Indoor Outdoor LSZH Cable passed the following tests:

- IEC 754 part 3, Acidity/Corrosively based on pH and Conductivity Measurements
- IEC 332 part 3, Flammability and Fire Retardant
- NES 713, Toxicity Index
- IEC 1034, Smoke Emissions



ACTNUD04MM5LS

PRODUCT FEATURES

- Complies with ANSI/TIA/EIA-568-C, ISO/IEC11801 Standards.
- All dielectric self-supporting fibre.
- Filled with water-resistant filling compound.
- LSZH or PE rated.

CUSTOMER BENEFITS

- Supports 100 Gigabit Ethernet application.
- Suitable for indoor/outdoor or inter/intra building backbones installation.
- Water-blocking.
- Excellent anti-flame performance.

TECHNICAL DATA-TRANSMISSION

Items	Attenuation				1Gb/s ethernet link distance (MAX)		10Gb/s ethernet link distance (MAX)		Bandwidth	
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	850nm	850nm	1300nm	
Unit	dB/km	dB/km	dB/km	dB/km	m	m	m	MHz-KM	MHz-KM	
OS2	-	-	≤0.5	≤0.4	-	-	-	-	-	
BISMF	-	-	≤0.5	≤0.4	-	-	-	-	-	
OM2	≤3.5	≤1.5	-	-	550	550	86	≥500	≥500	
OM1	≤3.5	≤1.5	-	-	275	550	35	≥200	≥500	
OM2+	≤3.5	≤1.5	-	-	750	2000	110	≥500	≥1000	
OM1+	≤3.5	≤1.5	-	-	500	1000	65	≥200	≥600	
OM3	≤3.5	≤1.5	-	-	1000	-	300	≥1500	≥500	
OM4	≤3.5	≤1.5	-	-	1100	-	550	≥3500	≥500	

Indoor/Outdoor LSZH Cables Duct Cables

INDOOR / OUTDOOR CANLES

Fibre Count	2-12		14-24	
Cable Sheath	LSZH	PE	LSZH	PE

CONSTRUCTION DATA

Loose Tube Material	PBT		PBT	
Tight buffer fiber Color	Fibre filling		Fibre filling	
Core Reinforce	Aramid yarn		Aramid yarn	
Out jacket material	LSZH	PE	LSZH	PE
Jacket Thinkness (mm)	1.5±0.1	1.0±0.1	1.5±0.1	1.0±0.1

TECHNICAL DATA-PHYSICAL

Fiber count	28±0.1		38±0.1	
Cable diameter(mm)	7.8±0.2	5.8±0.2	8.0±0.2	6.8±0.2
Cable weight (kg/km)	40	26	50	34
Temperature rating	Operation	-20° C~+ 60° C		
	Storage	-20° C~+ 60° C		

TECHNICAL DATA-MECHANICAL

Max. loading (N)	Installation	660N
	Operation	200N
Min bending radius (mm)	with load	20xD
	without load	10xD
Crush Resistance	1000N/100mm	

CATALOGUE NUMBER	DESCRIPTION
ACTNUDxxSM9LS	Indoor/Outdoor, xx-Core, 9/125µm Single-Module OS2, LSZH
ACTNUDxxSM9BLS	Indoor/Outdoor, xx-Core, 9/125µm Single-Module Bend-Insensitive, LSZH
ACTNUDxxMM6LS	Indoor/Outdoor, xx-Core, 62.5/125µm Multi-Module OM1, LSZH
ACTNUDxxMM6HLS	Indoor/Outdoor, xx-Core, 62.5/125µm Multi-Module OM1 Plus, LSZH
ACTNUDxxMM5LS	Indoor/Outdoor, xx-Core, 50/125µm Multi-Module OM2, LSZH
ACTNUDxxMM5HLS	Indoor/Outdoor, xx-Core, 50/125µm Multi-Module OM2 Plus, LSZH
ACTNUDxxMM5TLS	10G Indoor/Outdoor, xx-Core, 50/125µm Multi-Module OM3, LSZH
ACTNUDxxMM5XLS	100G Indoor/Outdoor, xx-Core, 50/125µm Multi-Module OM4, LSZH
<i>Note : Where xx denotes fibre counts (e.g. 04/06/08/12/16/24)</i>	
ACTNUDxxSM9PE	Indoor/Outdoor, xx-Core, 9/125µm Single-Module OS2, PE
ACTNUDxxSM9BPE	Indoor/Outdoor, xx-Core, 9/125µm Single-Module Bend-Insensitive, PE
ACTNUDxxMM6PE	Indoor/Outdoor, xx-Core, 62.5/125µm Multi-Module OM1, PE
ACTNUDxxMM6HPE	Indoor/Outdoor, xx-Core, 62.5/125µm Multi-Module OM1 Plus, PE
ACTNUDxxMM5PE	Indoor/Outdoor, xx-Core, 50/125µm Multi-Module OM2, PE
ACTNUDxxMM5HPE	Indoor/Outdoor, xx-Core, 50/125µm Multi-Module OM2 Plus, PE
ACTNUDxxMM5TPE	10G Indoor/Outdoor, xx-Core, 50/125µm Multi-Module OM3, PE
ACTNUDxxMM5XPE	100G Indoor/Outdoor, xx-Core, 50/125µm Multi-Module OM4, PE
<i>Note : Where xx denotes fibre counts (e.g. 04/06/08/12/16/24)</i>	

Actassi Fibre Patch Panels & Splice Trays

The Actassi Fibre Management Enclosure is a superior and compact fibre termination solution. It provides a rack/cabinet mountable solution with a provision to splice up to 48 external optional fibres to 48 pigtailed. Installed with a pair of cable radius guides, this enclosure can also facilitate a maximum of 24 fibre patching applications.

This powder coated steel enclosure comes with a transparent removable Plexiglass cover for ease of installation, inspection and testing. Innovated design such as slide in/out cable entry provides additional flexibility during installation, movement or changes in the future.

Designed with multiple applications in mind, the Actassi Fibre Management Enclosure can accommodate different types of modular adapter panel plates and splice trays (optional) to give outstanding performance and functionality.



TECHNICAL SPECIFICATIONS

Material	Powder Coated Mild Steel
Accommodation	Up to 24 x ST Connectors Up to 24 x SC Connectors Up to 48 LC Connectors Up to 48 x MTRJ Connectors
Cable Termination	Direct Termination
Options	Mechanical & Fusion Splicing

PRODUCT FEATURES

- 1U panel and 19" front rack mounting enclosure provides patching and fibre slack storage capability conduit or standard tube interfacing.
- Accommodates up to 3 connector panel plates(Max.).
- Access connector panel with front quick release latch cover.
- Nylon cable radius guide and centre strength member clamp.
- Cable fibre track cover provides additional protection and a clean outlook.
- Transparent, easy access slide-out and removable Plexiglass cover.
- Additional rear mount ears (a set of 2) for cabinet mounting.
- Rugged steel construction in graphite finish.
- Optional splice tray can be mounted to the unit.
- Slide in cable entry panel with 2 x 25mm diameter holes.

CUSTOMER BENEFITS

- Provide patching and fibre slack storage capability with technicians and users in mind:
 - the technician's side has facilities for securing the cable, storing fibre slack and arranging the terminated fibres.
 - the user's side has similar features for the management of fibre optic patch cord.
- 66mm deep front cable panel for patch cord management and protection.
- Side-out Medium Density optical fibre management enclosure for optimum access, to ease installation, inspection and testing.
- Slide-in cable entry panel with 2 x 25mm diameter holes allow flexible conduit or standard tube interfacing during installation.
- Nylon cable radius guide within the enclosure to accommodate excess fibres while maintaining fibre bend radius.
- Cable fibre track cover to give additional protection and clean outlook.
- Optional splice tray can be mounted to manage and protect either fusion or mechanical splices.

CATALOGUE NUMBER	DESCRIPTION	CATALOGUE NUMBER	DESCRIPTION
ACTFM1ULC48	1U, 48-Port, LC Fibre, Loaded, Multi-mode	ACTFM1U2LC8PSM	1U, LC Duplex Fibre, Panel Plate, with 8 Adaptors, Single-mode
ACTFM1ULC48SM	1U, 48-Port, LC Fibre, Loaded, Single-mode	ACTFM1U2SC4P	1U, SC Duplex Fibre, Panel Plate, with 4 Adaptors
ACTFM1USC24	1U, 24-Port, SC Fibre, Loaded, Multi-mode	ACTFM1U2SC4PSM	1U, SC Duplex Fibre, Panel Plate, with 4 Adaptors, Single-mode
ACTFM1USC24SM	1U, 24-Port, SC Fibre, Loaded, Single-mode	ACTFM1U1ST8P	1U, ST Simplex Fibre, Panel Plate, with 8 Adaptors
ACTFM1UST24	1U, 24-Port, ST Fibre, Loaded, Multi-mode	ACTFM1U1ST8PSM	1U, ST Simplex Fibre, Panel Plate, with 8 Adaptors, Single-mode
ACTFM1UST24SM	1U, 24-Port, ST Fibre, Loaded, Single-mode	ACTFM1UU	1U, 24-Port Fibre Sliding Enclosure, Unloaded
ACTFM1U2LC4P	1U, LC Duplex Fibre, Panel Plate, with 4 Adaptors	ACTFM1UB	1U, Fibre Blank Connector Panel
ACTFM1U2LC4PSM	1U, LC Duplex Fibre, Panel Plate, with 4 Adaptors, Single-mode	ACTFSK24F	Fusion 24 Splice Tray
ACTFM1U2LC8P	1U, LC Duplex Fibre, Panel Plate, with 8 Adaptors		

SC Fibre Patch Cords

The Simplex and Duplex SC Fibre Patch Cords are 1.6mm mini cordage with push-pull SC connectors terminated on each end. These patch cords are available in Simplex, Duplex, Multi-Mode and Single-Mode configurations.

PHYSICAL SPECIFICATIONS

Coated Fibre Diameter	250µm
Cable Outside Diameter	Simplex: 1.6mm; Duplex: 3.4mm x 1.6mm
Min. Bend Radius	3.0cm

OPTICAL SPECIFICATIONS

Multi-Mode	62.5/125µm(OM1)	50/125µm(OM2)	50/125µm(OM3)
Min. Bandwidth @850nm	200MHz-km	500MHz-km	1500MHz-km
@1300nm	500MHz-km	500MHz-km	500MHz-km
Single-Mode			
Average Loss	0.3dB/mated connector		
Return Loss	-50dB max.		

MECHANICAL CHARACTERISTICS

Connector		
Ferrule Materials	Zirconia Ceramic	
Housing Body	Engineered Resin	
Cable		
Boot	Thermoplastic Elastomer	
Flammability	UL 94V-0	
Glass Core/Cladding Diameter	Single-Mode (SM) 9/125µm	Multi-Mode (MM) 50/125µm or 62.5/125µm
Polymer Coating Diameter	125µm	
Jacket Specification	OFNR as optional	

PERFORMANCE

Connector	SC
Mean Insertion Loss	0.2dB
Maximum Insertion Loss	0.4dB
Maximum Reflection	-50dB (SM)/-25dB (MM)
Connector Durability (500 matings)	<0.2dB max.
Cable	50 (MM)
Cable Attenuation @ 23°C Typical	3.5dB/km (SM)/1.5dB/km (MM)

ENVIRONMENTAL

Operating Temperature Range	0°C to 70°C
Storage Temperature Range	-10°C to 75°C



ACTFP2C1S19S10

PRODUCT FEATURES

- Meets ANSI/TIA/EIA 568-C.3 and ISO/IEC 11801 Standards.
- Patch cords are available in Simplex, Duplex, Single-Mode and Multi-Mode configurations with different length options.
- Cords are easy-to-install and environmentally stable.

CUSTOMER BENEFITS

- Supports LAN, WAN and active device termination.
- All cords are factory terminated and tested.
- Provides a reliable and durable connection solution.

SC Fibre Patch Cords

CATALOGUE NUMBER DESCRIPTION

Simplex OS2, Single-Mode

ACTFP1C1S19S10	SC-SC simplex, single-mode, patch cord 1m
ACTFP1C1S19S20	SC-SC simplex, single-mode, patch cord 2m
ACTFP1C1S19S30	SC-SC simplex, single-mode, patch cord 3m
ACTFP1C1S19S50	SC-SC simplex, single-mode, patch cord 5m
ACTFP1C1S19S100	SC-SC simplex, single-mode, patch cord 10m

Duplex OS2, Single-Mode

ACTFP2C1S19S10	SC-SC duplex, single-mode, patch cord 1m
ACTFP2C1S19S20	SC-SC duplex, single-mode, patch cord 2m
ACTFP2C1S19S30	SC-SC duplex, single-mode, patch cord 3m
ACTFP2C1S19S50	SC-SC duplex, single-mode, patch cord 5m
ACTFP2C1S19S100	SC-SC duplex, single-mode, patch cord 10m

Duplex OM1, Multi-Mode

ACTFP2C1M16M10	SC-SC 62.5µm duplex, multi-mode, patch cord 1m
ACTFP2C1M16M20	SC-SC 62.5µm duplex, multi-mode, patch cord 2m
ACTFP2C1M16M30	SC-SC 62.5µm duplex, multi-mode, patch cord 3m
ACTFP2C1M16M50	SC-SC 62.5µm duplex, multi-mode, patch cord 5m
ACTFP2C1M16M100	SC-SC 62.5µm duplex, multi-mode, patch cord 10m

Duplex OM2, Multi-Mode

ACTFP2C1M25M10	SC-SC 50µm duplex, multi-mode, patch cord 1m
ACTFP2C1M25M20	SC-SC 50µm duplex, multi-mode, patch cord 2m
ACTFP2C1M25M30	SC-SC 50µm duplex, multi-mode, patch cord 3m
ACTFP2C1M25M50	SC-SC 50µm duplex, multi-mode, patch cord 5m
ACTFP2C1M25M100	SC-SC 50µm duplex, multi-mode, patch cord 10m

Duplex OM3, Multi-Mode

ACTFP2C1M35M10	SC-SC OM3 50µm duplex, multi-mode, patch cord 1m
ACTFP2C1M35M20	SC-SC OM3 50µm duplex, multi-mode, patch cord 2m
ACTFP2C1M35M30	SC-SC OM3 50µm duplex, multi-mode, patch cord 3m
ACTFP2C1M35M50	SC-SC OM3 50µm duplex, multi-mode, patch cord 5m
ACTFP2C1M35M100	SC-SC OM3 50µm duplex, multi-mode, patch cord 10m

ST Fibre Patch Cords

The Simplex and Duplex ST Fibre Patch Cords are 1.6mm mini cordage with push-pull ST connectors terminated on each end. These patch cords are available in Simplex, Duplex, Multi-Mode and Single-Mode configurations.

PHYSICAL SPECIFICATIONS

Coated Fibre Diameter	250µm
Cable Outside Diameter	Simplex: 1.6mm; Duplex: 3.4mm x 1.6mm
Min. Bend Radius	3.0cm

OPTICAL SPECIFICATIONS

Multi-Mode	62.5/125µm(OM1)	50/125µm(OM2)	50/125µm(OM3)
Min. Bandwidth @850nm	200MHz-km	500MHz-km	1500MHz-km
@1300nm	500MHz-km	500MHz-km	500MHz-km
Single-Mode			
Average Loss	0.3dB/mated connector		
Return Loss	-50dB max.		

MECHANICAL CHARACTERISTICS

Connector	
Ferrule Materials	Zirconia Ceramic
Housing Body	Nickel Plated Zinc
Cable	
Boot	Thermoplastic Elastomer
Flammability	UL 94V-0
Glass Core/Cladding Diameter	Single-Mode (SM) 9/125µm Multi-Mode (MM) 50/125µm or 62.5/125µm
Polymer Coating Diameter	125µm
Jacket Specification	LSZH / OFNR as optional

PERFORMANCE

Connector	ST
Mean Insertion Loss	0.2dB
Maximum Insertion Loss	0.4dB
Maximum Reflection	-50dB (SM)/-25dB (MM)
Connector Durability (500 matings)	<0.2dB max.
Cable	9 (SM)/50 (MM)
Cable Attenuation @ 23°C Typical	3.5dB/km (SM)/1.5dB/km (MM)

ENVIRONMENTAL

Operating Temperature Range	0°C to 70°C
Storage Temperature Range	-10°C to 75°C



PRODUCT FEATURES

- Meets ANSI/TIA/EIA 568-C.3 and ISO/IEC 11801 Standards.
- Patch cords are available in Single-Mode and Multi-Mode configurations with different length options.
- Cords are easy-to-install and environmentally stable.

CUSTOMER BENEFITS

- Supports LAN, WAN and active device termination.
- Provides a reliable and durable connection solution.
- All cords are factory terminated and tested.

ST Fibre Patch Cords

CATALOGUE NUMBER	DESCRIPTION
Simplex OS2, Single-Mode	
ACTFP1T1S19S10	ST-ST Simplex, Single-Mode, Patch Cord, 1m
ACTFP1T1S19S20	ST-ST Simplex, Single-Mode, Patch Cord, 2m
ACTFP1T1S19S30	ST-ST Simplex, Single-Mode, Patch Cord, 3m
ACTFP1T1S19S50	ST-ST Simplex, Single-Mode, Patch Cord, 5m
ACTFP1T1S19S100	ST-ST Simplex, Single-Mode, Patch Cord, 10m
Duplex OS2, Single-Mode	
ACTFP2T1S19S10	ST-ST Duplex, Single-Mode, Patch Cord, 1m
ACTFP2T1S19S20	ST-ST Duplex, Single-Mode, Patch Cord, 2m
ACTFP2T1S19S30	ST-ST Duplex, Single-Mode, Patch Cord, 3m
ACTFP2T1S19S50	ST-ST Duplex, Single-Mode, Patch Cord, 5m
ACTFP2T1S19S100	ST-ST Duplex, Single-Mode, Patch Cord, 10m
Duplex OM1 Multi-Mode	
ACTFP2T1M16M10	ST-ST 62.5µm Duplex, Multi-Mode, Patch Cord, 1m
ACTFP2T1M16M20	ST-ST 62.5µm Duplex, Multi-Mode, Patch Cord, 2m
ACTFP2T1M16M30	ST-ST 62.5µm Duplex, Multi-Mode, Patch Cord, 3m
ACTFP2T1M16M50	ST-ST 62.5µm Duplex, Multi-Mode, Patch Cord, 5m
ACTFP2T1M16M100	ST-ST 62.5µm Duplex, Multi-Mode, Patch Cord, 10m
Duplex OM2, Multi-Mode	
ACTFP2T1M25M10	ST-ST 50µm Duplex, Multi-Mode, Patch Cord, 1m
ACTFP2T1M25M20	ST-ST 50µm Duplex, Multi-Mode, Patch Cord, 2m
ACTFP2T1M25M30	ST-ST 50µm Duplex, Multi-Mode, Patch Cord, 3m
ACTFP2T1M25M50	ST-ST 50µm Duplex, Multi-Mode, Patch Cord, 5m
ACTFP2T1M25M100	ST-ST 50µm Duplex, Multi-Mode, Patch Cord, 10m
Duplex OM3, Multi-Mode	
ACTFP2T1M35M10	ST-ST OM3 50µm Duplex, Multi-Mode, Patch Cord, 1m
ACTFP2T1M35M20	ST-ST OM3 50µm Duplex, Multi-Mode, Patch Cord, 2m
ACTFP2T1M35M30	ST-ST OM3 50µm Duplex, Multi-Mode, Patch Cord, 3m
ACTFP2T1M35M50	ST-ST OM3 50µm Duplex, Multi-Mode, Patch Cord, 5m
ACTFP2T1M35M100	ST-ST OM3 50µm Duplex, Multi-Mode, Patch Cord, 10m

LC Fibre Patch Cords

The Simplex and Duplex LC Fibre Patch Cords are 1.6mm mini cordage with push-pull LC connectors terminated on each end. These patch cords are available in Simplex, Duplex, Multi-Mode and Single-Mode configurations.

PHYSICAL SPECIFICATIONS

Coated Fibre Diameter	250µm
Cable Outside Diameter	Simplex: 1.6mm; Duplex: 3.4mm x 1.6mm
Min. Bend Radius	3.0cm

OPTICAL SPECIFICATIONS

Multi-Mode	62.5/125µm(OM1)	50/125µm(OM2)	50/125µm(OM3)
Min. Bandwidth @850nm	200MHz-km	500MHz-km	1500MHz-km
@1300nm	500MHz-km	500MHz-km	500MHz-km
Single-Mode			
Average Loss	0.3dB/mated connector		
Return Loss	-50dB max.		

MECHANICAL CHARACTERISTICS

Connector	
Ferrule Materials	Zirconia Ceramic
Housing Body	Engineered Resin
Cable	
Boot	Thermoplastic Elastomer
Flammability	UL 94V-0
Glass Core/Cladding Diameter	Single-Mode (SM) 9/125µm Multi-Mode (MM) 50/125µm or 62.5/125µm
Polymer Coating Diameter	125µm
Jacket Specification	LSZH / OFNR as optional

PERFORMANCE

Connector	LC
Mean Insertion Loss	0.2dB
Maximum Insertion Loss	0.4dB
Maximum Reflection	-50dB (SM)/-25dB (MM)
Connector Durability (500 matings)	<0.2dB max.
Cable	9 (SM)/50 (MM)
Cable Attenuation @ 23°C Typical	3.5dB/km (SM)/1.5dB/km (MM)

ENVIRONMENTAL

Operating Temperature Range	0°C to 70°C
Storage Temperature Range	-10°C to 75°C



ACTFP2L1S19S10

LC Fibre Patch Cords

CATALOGUE NUMBER	DESCRIPTION
Simplex OS2, Single-Mode	
ACTFP1L1S19S10	LC-LC Simplex, Single-Mode, Patch Cord, 1m
ACTFP1L1S19S20	LC-LC Simplex, Single-Mode, Patch Cord, 2m
ACTFP1L1S19S30	LC-LC Simplex, Single-Mode, Patch Cord, 3m
ACTFP1L1S19S50	LC-LC Simplex, Single-Mode, Patch Cord, 5m
ACTFP1L1S19S100	LC-LC Simplex, Single-Mode, Patch Cord, 10m
Duplex OS2, Single-Mode	
ACTFP2L1S19S10	LC-LC Duplex, Single-Mode, Patch Cord, 1m
ACTFP2L1S19S20	LC-LC Duplex, Single-Mode, Patch Cord, 2m
ACTFP2L1S19S30	LC-LC Duplex, Single-Mode, Patch Cord, 3m
ACTFP2L1S19S50	LC-LC Duplex, Single-Mode, Patch Cord, 5m
ACTFP2L1S19S100	LC-LC Duplex, Single-Mode, Patch Cord, 10m
Duplex OM1 Multi-Mode	
ACTFP2L1M16M10	LC-LC 62.5µm, Duplex, Multi-Mode, Patch Cord, 1m
ACTFP2L1M16M20	LC-LC 62.5µm, Duplex, Multi-Mode, Patch Cord, 2m
ACTFP2L1M16M30	LC-LC 62.5µm, Duplex, Multi-Mode, Patch Cord, 3m
ACTFP2L1M16M50	LC-LC 62.5µm, Duplex, Multi-Mode, Patch Cord, 5m
ACTFP2L1M16M100	LC-LC 62.5µm, Duplex, Multi-Mode, Patch Cord, 10m
Duplex OM2, Multi-Mode	
ACTFP2L1M25M10	LC-LC 50µm, Duplex, Multi-Mode, Patch Cord, 1m
ACTFP2L1M25M20	LC-LC 50µm, Duplex, Multi-Mode, Patch Cord, 2m
ACTFP2L1M25M30	LC-LC 50µm, Duplex, Multi-Mode, Patch Cord, 3m
ACTFP2L1M25M50	LC-LC 50µm, Duplex, Multi-Mode, Patch Cord, 5m
ACTFP2L1M25M100	LC-LC 50µm, Duplex, Multi-Mode, Patch Cord, 10m
Duplex OM3, Multi-Mode	
ACTFP2L1M35M10	LC-LC OM3 50µm, Duplex, Multi-Mode, Patch Cord, 1m
ACTFP2L1M35M20	LC-LC OM3 50µm, Duplex, Multi-Mode, Patch Cord, 2m
ACTFP2L1M35M30	LC-LC OM3 50µm, Duplex, Multi-Mode, Patch Cord, 3m
ACTFP2L1M35M50	LC-LC OM3 50µm, Duplex, Multi-Mode, Patch Cord, 5m
ACTFP2L1M35M100	LC-LC OM3 50µm, Duplex, Multi-Mode, Patch Cord, 10m

Note : Duplex OM4, Multi-mode will be provided upon request

MTRJ Fibre Patch Cords

The Duplex MTRJ Fibre Patch Cords are 1.6mm mini cordage with push-pull ST connectors terminated on each end. These patch cords are available in Duplex Multi-Mode and Single-Mode configurations.

PHYSICAL SPECIFICATIONS

Coated Fibre Diameter	250µm
Cable Outside Diameter	Duplex: 3.4mm x 1.6mm
Min. Bend Radius	3.0cm

OPTICAL SPECIFICATIONS

Multi-Mode	50/125µm(OM3)
Min. Bandwidth @850nm @1300nm	1500MHz-km 500MHz-km

MECHANICAL CHARACTERISTICS

Connector	
Ferrule Materials	Zirconia Ceramic
Housing Body	Engineered Resin
Cable	
Boot	Thermoplastic Elastomer
Flammability	UL 94V-0
Glass Core/Cladding Diameter	Multi-Mode (MM) 50/125µm or 62.5/125µm
Polymer Coating Diameter	125µm
Jacket Specification	LSZH / OFNR as optional

PERFORMANCE

Connector	MTRJ
Mean Insertion Loss	0.4dB
Maximum Insertion Loss	0.5dB
Maximum Reflection	-20dB (MM)
Connector Durability (500 matings)	<0.2dB max.
Cable	9µm (SM)/50µm (MM)/62.5µm(MM)
Cable Attenuation @ 23° C Typical	3.5dB/km (SM)/1.5dB/km (MM)

ENVIRONMENTAL

Operating Temperature Range	0° C to 70° C
Storage Temperature Range	-10° C to 75° C



ACTFP2M1 M35M10

PRODUCT FEATURES

- Meets ANSI/TIA/EIA 568-C.3 and ISO/IEC 11801 Standards.
- Patch cords are available in Single-Mode and Multi-Mode configurations with different length options.
- Cords are easy-to-install and environmentally stable.

CUSTOMER BENEFITS

- Supports LAN, WAN and active device termination.
- All cords are factory terminated and tested.
- Provides a reliable and durable connection solution.

CATALOGUE NUMBER DESCRIPTION

Duplex OM3 Multi Mode

ACTFP2M1M35M10	MTRJ-MTRJ OM3, 50µm, duplex, multi-mode, patch cord, 1m
ACTFP2M1M35M20	MTRJ-MTRJ OM3, 50µm, duplex, multi-mode, patch cord, 2m
ACTFP2M1M35M30	MTRJ-MTRJ OM3, 50µm, duplex, multi-mode, patch cord, 3m
ACTFP2M1M35M50	MTRJ-MTRJ OM3, 50µm, duplex, multi-mode, patch cord, 5m
ACTFP2M1M35M100	MTRJ-MTRJ OM3, 50µm, duplex, multi-mode, patch cord, 10m

Note: OM4 will be provided upon request

SC-LC Fibre Patch Cords

The Duplex SC-LC Fibre Patch Cords are 1.6mm mini cordage with push-pull SC-LC connectors terminated on each end. These patch cords are available in Simplex, Duplex Multi-Mode and Single-Mode configurations.

PHYSICAL SPECIFICATIONS

Coated Fibre Diameter	250µm
Cable Outside Diameter	Duplex: 3.4mm x 1.6mm
Min. Bend Radius	3.0cm

OPTICAL SPECIFICATIONS

Multi-Mode	62.5/125µm(OM1)	50/125µm(OM2)	50/125µm(OM3)
Min. Bandwidth @850nm	200MHz-km	500MHz-km	1500MHz-km
@1300nm	500MHz-km	500MHz-km	500MHz-km
Single-Mode			
Average Loss	0.3dB/mated connector		
Return Loss	-50dB max.		

MECHANICAL CHARACTERISTICS

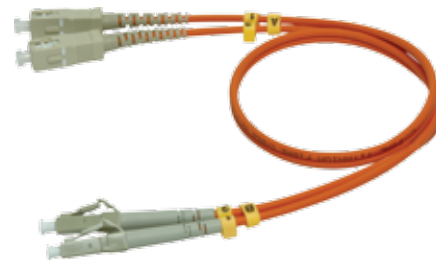
Connector	
Ferrule Materials	Zirconia Ceramic
Housing Body	Engineered Resin
Cable	
Boot	Thermoplastic Elastomer
Flammability	UL 94V-0
Glass Core/Cladding Diameter	Single-Mode (SM) 9/125µm Multi-Mode (MM) 50/125µm or 62.5/125µm
Polymer Coating Diameter	125µm
Jacket Specification	LSZH / OFNR as optional

PERFORMANCE

Connector	SC	LC
Mean Insertion Loss	0.2dB	0.2dB
Maximum Insertion Loss	0.4dB	0.4dB
Maximum Reflection	-50dB (SM)/-25dB (MM)	-50dB (SM)/-25dB (MM)
Connector Durability (500 matings)	<0.2dB max.	<0.2dB max.
Cable	9 (SM)/50 (MM)	9 (SM)/50 (MM)
Cable Attenuation @ 23°C Typical	3.5dB/km (SM)/1.5dB/km (MM)	3.5dB/km (SM)/1.5dB/km (MM)

ENVIRONMENTAL

Operating Temperature Range	0°C to 70°C
Storage Temperature Range	-10°C to 75°C



ACTFP2CL1M25M10

PRODUCT FEATURES

- Meets ANSI/TIA/EIA 568-C.3 and ISO/IEC 11801 Standards.
- Patch cords are available in Duplex, Multi-Mode configurations with different length options.
- Cords are easy-to-install and environmentally stable.

CUSTOMER BENEFITS

- Supports LAN, WAN and active device termination.
- Provides a reliable and durable connection solution.
- All cords are factory terminated and tested.

SC-LC Fibre Patch Cords

CATALOGUE NUMBER	DESCRIPTION
Simplex OS2, Single-Mode	
ACTFP1CL1S19S10	SC-LC Simplex, Single-Mode, Patch Cord, 1m
ACTFP1CL1S19S20	SC-LC Simplex, Single-Mode, Patch Cord, 2m
ACTFP1CL1S19S30	SC-LC Simplex, Single-Mode, Patch Cord, 3m
ACTFP1CL1S19S50	SC-LC Simplex, Single-Mode, Patch Cord, 5m
ACTFP1CL1S19S100	SC-LC Simplex, Single-Mode, Patch Cord, 10m
Duplex OS2, Single-Mode	
ACTFP2CL1S19S10	SC-LC Duplex, Single-Mode, Patch Cord, 1m
ACTFP2CL1S19S20	SC-LC Duplex, Single-Mode, Patch Cord, 2m
ACTFP2CL1S19S30	SC-LC Duplex, Single-Mode, Patch Cord, 3m
ACTFP2CL1S19S50	SC-LC Duplex, Single-Mode, Patch Cord, 5m
ACTFP2CL1S19S100	SC-LC Duplex, Single-Mode, Patch Cord, 10m
Duplex OM1, Multi-Mode	
ACTFP2CL1M16M10	SC-LC 62.5µm, Duplex, Multi-Mode, Patch Cord, 1m
ACTFP2CL1M16M20	SC-LC 62.5µm, Duplex, Multi-Mode, Patch Cord, 2m
ACTFP2CL1M16M30	SC-LC 62.5µm, Duplex, Multi-Mode, Patch Cord, 3m
ACTFP2CL1M16M50	SC-LC 62.5µm, Duplex, Multi-Mode, Patch Cord, 5m
ACTFP2CL1M16M100	SC-LC 62.5µm, Duplex, Multi-Mode, Patch Cord, 10m
Duplex OM2, Multi-Mode	
ACTFP2CL1M25M10	SC-LC 50µm, Duplex, Multi-Mode, Patch Cord, 1m
ACTFP2CL1M25M20	SC-LC 50µm, Duplex, Multi-Mode, Patch Cord, 2m
ACTFP2CL1M25M30	SC-LC 50µm, Duplex, Multi-Mode, Patch Cord, 3m
ACTFP2CL1M25M50	SC-LC 50µm, Duplex, Multi-Mode, Patch Cord, 5m
ACTFP2CL1M25M100	SC-LC 50µm, Duplex, Multi-Mode, Patch Cord, 10m
Duplex OM3, Multi-Mode	
ACTFP2CL1M35M10	SC-LC OM3 50µm, Duplex, Multi-Mode, Patch Cord, 1m
ACTFP2CL1M35M20	SC-LC OM3 50µm, Duplex, Multi-Mode, Patch Cord, 2m
ACTFP2CL1M35M30	SC-LC OM3 50µm, Duplex, Multi-Mode, Patch Cord, 3m
ACTFP2CL1M35M50	SC-LC OM3 50µm, Duplex, Multi-Mode, Patch Cord, 5m
ACTFP2CL1M35M100	SC-LC OM3 50µm, Duplex, Multi-Mode, Patch Cord, 10m

ST-SC Fibre Patch Cords

The Duplex ST-SC Fibre Patch Cords are 1.6mm mini cordage with push-pull ST-SC connectors terminated on each end. These patch cords are available in Simplex, Duplex Multi-Mode and Single-Mode configurations.

PHYSICAL SPECIFICATIONS

Coated Fibre Diameter	250µm
Cable Outside Diameter	Duplex: 3.4mm x 1.6mm
Min. Bend Radius	3.0cm

OPTICAL SPECIFICATIONS

Multi-Mode	62.5/125µm(OM1)	50/125µm(OM2)	50/125µm(OM3)
Min. Bandwidth @850nm	200MHz-km	500MHz-km	1500MHz-km
@1300nm	500MHz-km	500MHz-km	500MHz-km
Single-Mode			
Average Loss	0.3dB/mated connector		
Return Loss	-50dB max.		

MECHANICAL CHARACTERISTICS

Connector	ST	SC
Ferrule Materials	Zirconia Ceramic	
Housing Body	Nickel Plated Zinc	Engineered Resin
Cable		
Boot	Thermoplastic Elastomer	
Flammability	UL 94V-0	
Glass Core/Cladding Diameter	Multi-Mode (MM) 50/125µm or 62.5/125µm	
Polymer Coating Diameter	125µm	
Jacket Specification	LSZH / OFNR as optional	

PERFORMANCE

Connector	ST	SC
Mean Insertion Loss	0.2dB	0.2dB
Maximum Insertion Loss	0.4dB	0.4dB
Maximum Reflection	-25dB (MM)	-25dB (MM)
Connector Durability (500 matings)	<0.2dB max.	<0.2dB max.
Cable	50 (MM)/62.5 (MM)	50 (MM)/62.5 (MM)
Cable Attenuation @ 23°C Typical	1.5dB/km (MM)	1.5dB/km (MM)

ENVIRONMENTAL

Operating Temperature Range	0°C to 70°C
Storage Temperature Range	-10°C to 75°C



ACTFP2TC1M16M10

PRODUCT FEATURES

- Meets ANSI/TIA/EIA 568-C.3 and ISO/IEC 11801 Standards.
- Patch cords are available in Duplex Multi-Mode configurations with different length options.
- Cords are easy-to-install and environmentally stable.

CUSTOMER BENEFITS

- Supports LAN, WAN and active device termination.
- Provides a reliable and durable connection solution.
- All cords are factory terminated and tested.

ST-SC Fibre Patch Cords

CATALOGUE NUMBER	DESCRIPTION
Simplex OS2, Single-Mode	
ACTFP1TC1S19S10	ST-SC Simplex, Single-Mode, Patch Cord, 1m
ACTFP1TC1S19S20	ST-SC Simplex, Single-Mode, Patch Cord, 2m
ACTFP1TC1S19S30	ST-SC Simplex, Single-Mode, Patch Cord, 3m
ACTFP1TC1S19S50	ST-SC Simplex, Single-Mode, Patch Cord, 5m
ACTFP1TC1S19S100	ST-SC Simplex, Single-Mode, Patch Cord, 10m
Duplex OS2, Single-Mode	
ACTFP2TC1S19S10	ST-SC Duplex, Single-Mode, Patch Cord, 1m
ACTFP2TC1S19S20	ST-SC Duplex, Single-Mode, Patch Cord, 2m
ACTFP2TC1S19S30	ST-SC Duplex, Single-Mode, Patch Cord, 3m
ACTFP2TC1S19S50	ST-SC Duplex, Single-Mode, Patch Cord, 5m
ACTFP2TC1S19S100	ST-SC Duplex, Single-Mode, Patch Cord, 10m
Duplex OM1, Multi-Mode	
ACTFP2TC1M16M10	ST-SC 62.5µm, Duplex, multi-Mode, Patch Cord, 1m
ACTFP2TC1M16M20	ST-SC 62.5µm, Duplex, multi-Mode, Patch Cord, 2m
ACTFP2TC1M16M30	ST-SC 62.5µm, Duplex, multi-Mode, Patch Cord, 3m
ACTFP2TC1M16M50	ST-SC 62.5µm, Duplex, multi-Mode, Patch Cord, 5m
ACTFP2TC1M16M100	ST-SC 62.5µm, Duplex, multi-Mode, Patch Cord, 10m
Duplex OM2, Multi-Mode	
ACTFP2TC1M25M10	ST-SC 50µm, Duplex, multi-Mode, Patch Cord, 1m
ACTFP2TC1M25M20	ST-SC 50µm, Duplex, multi-Mode, Patch Cord, 2m
ACTFP2TC1M25M30	ST-SC 50µm, Duplex, multi-Mode, Patch Cord, 3m
ACTFP2TC1M25M50	ST-SC 50µm, Duplex, multi-Mode, Patch Cord, 5m
ACTFP2TC1M25M100	ST-SC 50µm, Duplex, multi-Mode, Patch Cord, 10m
Duplex OM3, Multi-Mode	
ACTFP2TC1M35M10	ST-SC OM3 50µm, Duplex, multi-Mode, Patch Cord, 1m
ACTFP2TC1M35M20	ST-SC OM3 50µm, Duplex, multi-Mode, Patch Cord, 2m
ACTFP2TC1M35M30	ST-SC OM3 50µm, Duplex, multi-Mode, Patch Cord, 3m
ACTFP2TC1M35M50	ST-SC OM3 50µm, Duplex, multi-Mode, Patch Cord, 5m
ACTFP2TC1M35M100	ST-SC OM3 50µm, Duplex, multi-Mode, Patch Cord, 10m

ST Fibre Pigtails

The Simplex ST Fibre Pigtails are 0.9mm tight buffrt fibre with push-pull ST connectors terminated on each end. These pigtails are available in Simplex Multi-Mode and Single-Mode configurations.

PHYSICAL SPECIFICATIONS

Coated Fibre Diameter	250µm
Cable Outside Diameter	Simplex: 0.9mm
Min. Bend Radius	9mm

OPTICAL SPECIFICATIONS

Multi-Mode	OM2
Min. Bandwidth @850nm @1300nm	≥500MHz-km ≥500MHz-km
Single-Mode	OS2
Attenuation @1310nm @1550nm	≤0.5dB/km ≤0.4dB/km
Average Loss	0.3dB/mated connector
Return Loss	-50dB max.



ACTFT1T1S19S10

PRODUCT FEATURES

- Meets ANSI/TIA/EIA 568-C.3 and ISO/IEC 11801 Standards.
- Patch cords are available in Simplex, Single-Mode and Multi-Mode configurations with different length options.
- Cords are easy-to-install and environmentally stable.
- Jacket specification is LSZH.

CUSTOMER BENEFITS

- Supports LAN, WAN and active device termination.
- Provides a reliable and durable connection solution.
- All cords are factory terminated and tested.

CATALOGUE NUMBER	DESCRIPTION
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OS2, Single-Mode

ACTFT1T1S19S10	ST, Single-Mode, Pigtail, 1.0m
ACTFT1T1S19S15	ST, Single-Mode, Pigtail, 1.5m
ACTFT1T1S19S20	ST, Single-Mode, Pigtail, 2.0m

OM2, Multi-Mode

ACTFT1T1M25M10	ST, 50µm, Multi-Mode, Pigtail, 1.0m
ACTFT1T1M25M15	ST, 50µm, Multi-Mode, Pigtail, 1.5m
ACTFT1T1M25M20	ST, 50µm, Multi-Mode, Pigtail, 2.0m

SC Fibre Pigtails

The Simplex SC Fibre Pigtails are 0.9mm tight buffer fibre with push-pull SC connectors terminated on each end. These pigtailed are available in Simplex Single-Mode and Multi-Mode configurations.

PHYSICAL SPECIFICATIONS

Coated Fibre Diameter	250µm
Cable Outside Diameter	Simplex: 0.9mm
Min. Bend Radius	9mm

OPTICAL SPECIFICATIONS

Multi-Mode	OM2	OM3	OM4
Min. Bandwidth @850nm @1300nm	≥500MHz-km ≥500MHz-km	≥1500MHz-km ≥500MHz-km	≥3500MHz-km ≥500MHz-km
Single-Mode	OS2		
Attenuation @1310nm @1550nm	≤0.5dB/km ≤0.4dB/km		
Average Loss	0.3dB/mated connector		
Return Loss	-50dB max.		



ACTFT1C1M25M20

PRODUCT FEATURES

- Meets ANSI/TIA/EIA 568-C.3 and ISO/IEC 11801 Standards.
- Patch cords are available in Simplex, Single-Mode and Multi-Mode configurations with different length options.
- Cords are easy-to-install and environmentally stable.
- Jacket specification is LSZH.

CUSTOMER BENEFITS

- Supports LAN, WAN and active device termination.
- Provides a reliable and durable connection solution.
- All cords are factory terminated and tested.

CATALOGUE NUMBER	DESCRIPTION	CATALOGUE NUMBER	DESCRIPTION
OS2, Single-Mode		OM3, Multi-Mode	
ACTFT1C1S19S10	SC, Single-Mode, Pigtail, 1.0m	ACTFT1C1M35M10	SC, OM3, 50µm, Multi-Mode, Pigtail, 1.0m
ACTFT1C1S19S15	SC, Single-Mode, Pigtail, 1.5m	ACTFT1C1M35M15	SC, OM3, 50µm, Multi-Mode, Pigtail, 1.5m
ACTFT1C1S19S20	SC, Single-Mode, Pigtail, 2.0m	ACTFT1C1M35M20	SC, OM3, 50µm, Multi-Mode, Pigtail, 2.0m
OM2, Multi-Mode		OM4, Multi-Mode	
ACTFT1C1M25M10	SC, 50µm, Multi-Mode, Pigtail, 1.0m	ACTFT1C1M45M10	SC, OM4, 50µm, Multi-Mode, Pigtail, 1.0m
ACTFT1C1M25M15	SC, 50µm, Multi-Mode, Pigtail, 1.5m	ACTFT1C1M45M15	SC, OM4, 50µm, Multi-Mode, Pigtail, 1.5m
ACTFT1C1M25M20	SC, 50µm, Multi-Mode, Pigtail, 2.0m	ACTFT1C1M45M20	SC, OM4, 50µm, Multi-Mode, Pigtail, 2.0m

LC Fibre Pigtails

The Simplex LC Fibre Pigtails are 0.9mm tight buffer fibre with push-pull LC connectors terminated on each end. These pigtails are available in Simplex Multi-Mode and Single-Mode configurations.

PHYSICAL SPECIFICATIONS

Coated Fibre Diameter	250µm
Cable Outside Diameter	Simplex: 0.9mm
Min. Bend Radius	9mm

OPTICAL SPECIFICATIONS

Multi-Mode	OM2	OM3	OM4
Min. Bandwidth @850nm @1300nm	≥500MHz-km ≥500MHz-km	≥1500MHz-km ≥500MHz-km	≥3,500MHz-km ≥500MHz-km
Single-Mode	OS2		
Attenuation @1310nm @1550nm	≤0.5dB/km ≤0.4dB/km		
Average Loss	0.3dB/mated connector		
Return Loss	-50dB max.		



ACTFT1L1M25M20

PRODUCT FEATURES

- Meets ANSI/TIA/EIA 568-C.3 and ISO/IEC 11801 Standards.
- Patch cords are available in Simplex, Single-Mode and Multi-Mode configurations with different length options.
- Cords are easy-to-install and environmentally stable.
- Jacket specification is LSZH.

CUSTOMER BENEFITS

- Supports LAN, WAN and active device termination.
- Provides a reliable and durable connection solution.
- All cords are factory terminated and tested.

CATALOGUE NUMBER	DESCRIPTION
OS2, Single-Mode	
ACTFT1L1S19S10	LC, Single-Mode, Pigtail, 1.0m
ACTFT1L1S19S15	LC, Single-Mode, Pigtail, 1.5m
ACTFT1L1S19S20	LC, Single-Mode, Pigtail, 2.0m
OM2, Multi-Mode	
ACTFT1L3M25M10	LC, 50µm, Multi-Mode, Pigtail, 1.0m
ACTFT1L3M25M15	LC, 50µm, Multi-Mode, Pigtail, 1.5m
ACTFT1L3M25M20	LC, 50µm, Multi-Mode, Pigtail, 2.0m

Note : Duplex OM4, Multi-mode will be provided upon request

CATALOGUE NUMBER	DESCRIPTION
OM3, Multi-Mode	
ACTFT1L1M35M10	LC, 50µm, Multi-Mode, Pigtail, 1.0m
ACTFT1L1M35M15	LC, 50µm, Multi-Mode, Pigtail, 1.5m
ACTFT1L1M35M20	LC, 50µm, Multi-Mode, Pigtail, 2.0m
OM4, Multi-Mode	
ACTFT1L1M45M10	LC, 50µm, Multi-Mode, Pigtail, 1.0m
ACTFT1L1M45M15	LC, 50µm, Multi-Mode, Pigtail, 1.5m
ACTFT1L1M45M20	LC, 50µm, Multi-Mode, Pigtail, 2.0m

MTRJ Fibre Pigtails

The Duplex MTRJ Fibre Pigtails are 0.9mm tight buffer fibre with push-pull MTRJ connectors terminated on each end. These pigtails are available in Duplex Single-Mode and Multi-Mode configurations.

PHYSICAL SPECIFICATIONS

Coated Fibre Diameter	250µm
Cable Outside Diameter	Duplex: 0.9mm x 0.9mm
Min. Bend Radius	9mm

OPTICAL SPECIFICATIONS

Multi-Mode		OM2
Min. Bandwidth @850nm @1300nm		≥500MHz-km ≥500MHz-km
Single-Mode		OS2
Attenuation @1310nm @1550nm		≤0.5dB/km ≤0.4dB/km
Average Loss		0.3dB/mated connector
Return Loss		-50dB max.



ACTFT2M1M25M20

PRODUCT FEATURES

- Meets ANSI/TIA/EIA 568-C.3 and ISO/IEC 11801 Standards.
- Patch cords are available in Duplex, Single-Mode and Multi-Mode configurations with different length options.
- Cords are easy-to-install and environmentally stable.
- Jacket specification is LSZH.

CUSTOMER BENEFITS

- Supports LAN, WAN and active device termination.
- Provides a reliable and durable connection solution.
- All cords are factory terminated and tested.

CATALOGUE NUMBER	DESCRIPTION
OS2, Single-Mode	
ACTFT2M1S19S10	MTRJ, Single-Mode, Pigtail, 1.0m
ACTFT2M1S19S15	MTRJ, Single-Mode, Pigtail, 1.5m
ACTFT2M1S19S20	MTRJ, Single-Mode, Pigtail, 2.0m
OM2, Multi-Mode	
ACTFT2M1M25M10	MTRJ, 50µm, Multi-Mode, Pigtail, 1.0m
ACTFT2M1M25M15	MTRJ, 50µm, Multi-Mode, Pigtail, 1.5m
ACTFT2M1M25M20	MTRJ, 50µm, Multi-Mode, Pigtail, 2.0m

Through Adaptors

The Actassi Fibre Optic Connectors and Adaptors are superior products delivering the best networking performance when used in conjunction with other Actassi Fibre Optic products.



ACTFA1TSMZM



ACTFA1CSMZP



ACTFA2CSMZP



ACTFA2LMMZP



ACTFA2LSMZP



ACTFA2MSMP

SPECIFICATIONS

- Fibre optic adaptors suitable to connect and align optic connectors (for both applications: optic patchpanels in telecom/ equipment rooms and faceplates at workstation).
 - Both multimode and singlemode versions
 - Identification of multimode adapters with beige color
 - Identification of singlemode adapters with blue color
 - Available in SC, ST, LC and MTRJ formats
 - Zirconia ceramic material ferrules
 - Snap-in latch

PERFORMANCES

- SC connectors compliant with TIA/EIA 604-3 and IEC 61754-4 Ed.2
- LC connectors compliant with TIA/EIA 604-10A and IEC 61754-20 Ed.2
- ST connectors compliant with TIA/EIA 604-2 and IEC 61754-2
- MTRJ connectors compliant with TIA/EIA 604-12 and IEC 61754-18

CATALOGUE NUMBER	DESCRIPTION
ST Adaptors	
ACTFA1TSMZM	ST Adaptor, Simplex, Single-Mode, Zirconia Ceramic, Metal
ACTFA1TMMZM	ST Adaptor, Simplex, Multi-Mode, Zirconia Ceramic, Metal
SC Adaptors	
ACTFA1CSMZP	SC Adaptor, Simplex, Single-Mode, Zirconia Ceramic, Plastic
ACTFA1CMMZP	SC Adaptor, Simplex, Multi-Mode, Zirconia Ceramic, Plastic
ACTFA2CSMZP	SC Adaptor, Duplex, Single-Mode, Zirconia Ceramic, Plastic
ACTFA2CMMZP	SC Adaptor, Duplex, Multi-Mode, Zirconia Ceramic, Plastic
LC Adaptors	
ACTFA2LSMZP	LC Adaptor, Duplex, Single-Mode, Zirconia Ceramic, Plastic
ACTFA2LMMZP	LC Adaptor, Duplex, Multi-mode, Zirconia Ceramic, Plastic
MTRJ Adaptors	
ACTFA2MMMP	MTRJ Adaptor, Duplex, Multi-Mode, Plastic
SC-ST Adaptors	
ACTFA2CTSMZP	SC-ST Adaptor, Duplex, Single-Mode, Zirconia Ceramic, Plastic
ACTFA2CTMMZP	SC-ST Adaptor, Duplex, Multi-mode, Zirconia Ceramic, Plastic
SC-LC Adaptors	
ACTFA2CLSMZP	SC-LC Adaptor, Duplex, Single-mode, Zirconia Ceramic, Plastic
ACTFA2CLMMZP	SC-LC Adaptor, Duplex, Multi-mode, Zirconia Ceramic, Plastic

Note: Premium (low loss) adaptors for OM3/OM4 connections loss be provided upon request.

Connectors

Schneider Electric offers the customer access to the most popular connector and adaptor types including the new Actassi connector. The Actassi Fibre Optic Connectors and Adaptors are superior products delivering the best networking performance when used in conjunction with Actassi Fibre Optic products.



ACTFCSTSM3



ACTFCSCMM3



ACTFCLCMM1



ACTFCMTRJMM2

SPECIFICATIONS

- Optic pigtails suitable for splices termination with fibre optic cables inside optic patchpanels and/or at workstation:
 - Zirconia ceramic material ferrules
 - Colored housing to identify quickly performances of the connectors

PERFORMANCES

- SC connectors compliant with TIA/EIA 604-3 and IEC 61754-4 Ed.2
- LC connectors compliant with TIA/EIA 604-10A and IEC 61754-20 Ed.2
- ST connectors compliant with TIA/EIA 604-2 and IEC 61754-2
- MTRJ connectors compliant with TIA/EIA 604-12 and IEC 61754-18

CATALOGUE NUMBER	DESCRIPTION
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ST Connectors

ACTFCSTSM3	ST Connector, Single-Mode, 3.0mm
ACTFCSTSM9	ST Connector, Single-Mode, 0.9mm
ACTFCSTMM3	ST Connector, Multi-Mode, 3.0mm
ACTFCSTMM9	ST Connector, Multi-Mode, 0.9mm

SC Connectors

ACTFCSCSM3	SC Connector, Single-Mode, 3.0mm
ACTFCSCSM9	SC Connector, Single-Mode, 0.9mm
ACTFCSCMM3	SC Connector, Multi-Mode, 3.0mm
ACTFCSCMM9	SC Connector, Multi-Mode, 0.9mm

LC Connectors

ACTFCLCSM1	LC Connector, Single-Mode, 1.6mm
ACTFCLCSM3	LC Connector, Single-Mode, 3.0mm
ACTFCLCMM1	LC Connector, Multi-Mode, 1.6mm
ACTFCLCMM3	LC Connector, Multi-Mode, 3.0mm

MTRJ Connectors

ACTFCMTRJMM1	MTRJ Connector, Multi-Mode, 1.6mm
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Note : OM3/OM4 connectors will be provided upon request

Premium (low loss) adaptors for OM3/OM4 connections loss be provided upon request.

Actassi Cabinet “Accessories”

Cabinets

The Actassi range of Free Standing and Wall Cabinets will set new standards for contemporary design and systems enclosure functionality. Actassi cabinets combine a metallic finished enclosure with a curved and tinted front perspex door to match the latest trends in office design.

Innovative features include the Actassi Surround Power System as a substitute for power rails, allowing users to plug in adaptors and position power outlets exactly where it is required. Miniature Circuit Breaker (MCB) protection is provided on the Surround Power System ensuring maximum protection of your valuable active equipment and servers.

No compromise has been made on performance or practicality. The cabinet's steel frame construction is designed to cope with heavy equipment including servers, network bridges and routers without buckling under load.

The Actassi cabinet range is available in wall mounting cabinets and both 19" and 24" free standing enclosures. The steel rear door and sides are removable for easy access to racks, hubs and servers while the shelf mounting rails can be accessed from front and rear for more convenient installation and modification.



ACTCBN42U800

PRODUCT FEATURES

- Contemporary styling.
- Curved and tinted front perspex door.
- Integrated vertical cable management.
- Schneider Electric Actassi Surround Power System replaces traditional power rails.
- Dual rear steel rear door and removable sides.
- Front and rear shelf mounting rails.

OPTIONAL ACCESSORIES

- Cable trays.
- Light and heavy duty castor sets.
- Fan trays.
- Cantilever, fixed or telescopic shelves.
- Horizontal and vertical power rails.
- Plain, raised and ventilated tops.

CATALOGUE NUMBER	DESCRIPTION
Free Standing Cabinets	
ACTCBN42U800	42RU Actassi Cabinet 800X800mm
ACTCBN4U1024	42RU Actassi Cabinet 800X1024mm

E-Series Cabinets

Schneider Electric E-Series cabinet is a fully configured metal enclosure for mounting industry standard 19" width equipment. Built around a rugged steel frame, with a tempered front glass door, combined with steel side and rear panels, it is ideally suited for rack mountable and non-rack mountable equipment (e.g. structured cabling patch panels, network hubs & switches, tower servers, monitors, UPS, telecommunications equipment, etc.). The Schneider Electric E-series offers the most commonly required assemblies under a single part number.

Accessories available for order include: Fan Tray, mounting ears for Power Panel, Sliding Tray, Front Door Lock and Side Door Lock.

PHYSICAL SPECIFICATIONS

Dimensions (mm)	24U	37U	42U
600mm x 600mm			
Height	1250	1821	2043
Width	600	600	600
Depth	600	600	600
600mm x 800mm			
Height	1250	1821	2043
Width	600	600	600
Depth	800	800	800
600mm x 970mm			
Height	1250	1821	2043
Width	600	600	600
Depth	970	970	970
Cable Entries			
Top	90mm x 220mm Knock Out		
Bottom	50mm x 240mm Knock Out		



E42U6080ETDCC

PRODUCT FEATURES

- 2mm thick front glass door provide safety.
- Meets GB/T 9963-1998 standards.
- Maximum shelf loading 120kg for all fix and sliding trays.
- Vented shelves and fans allows airflow inside cabinet.
- Meet UL standard.
- Compliant with ANSI/EIA RS-310-D; DIN 41494, Part 7; DIN 41491, Part 1; IFC 297-2; GB/T3047.2-92 standards.

CUSTOMER BENEFITS

- Removable panel for easy access.
- Constant airflow keeps equipment ventilated.
- Top & Bottom Cable Aperture enables cable trunk to access from the top or bottom.
- Installation flexibility.
- Convenience - wheel to location and apply adjustable feet.
- Maximum static loading of 800kg (moving of 400kg).

CATALOGUE NUMBER	DESCRIPTION
E24U6060ETDCC	24U Cabinet, 600mm x 600mm
E42U6060ETDCC	42U Cabinet, 600mm x 600mm
E42U6080ETDCC	42U Cabinet, 600mm x 800mm

Metallic Cable Management Panel

The Metallic Cable Management Panel is a superior product delivering excellent cable management support when used in conjunction with other Schneider Electric Series products.

The Panel is a 1 Rack Unit (1U) item designed for use in 19" rack environments, managing Patch Cords/Cables that are connected between Patch Panels and/or Hubs. The product is generally mounted between every 2nd row of Patch Panels/Hubs. The base is of a metal construction and it comes with a plastic cover to cover the Patch Cords, once installed a neat appearance of the patch field can be maintained. The metallic fingers allow space for the Patch Cords to locate prior to closing the cover (2 Patch Cords per slot).

PHYSICAL SPECIFICATIONS

Mechanical Characteristics

Panel Material	1.6mm Mild Steel, Powder-coated
Cover Material	Polypropylene, Graphite Grey
Dimensions	
Shipping Box	51mm(H) x 502mm(W) x 80mm(D)
Shipping Weight	750g



ACTRJ1UCMPM

PRODUCT FEATURES

- Cable Management Panel with metal fingers and plastic cover.
- Metal base is powder coated to provide protection against scratches and rust.
- A plastic cover provides security and aesthetics.
- Available as a 1-rack unit (1U) item.
- Available in Graphite Grey.
- Compatible with standard 19" equipment racks.

CUSTOMER BENEFITS

- Powder coated metal provides protection from scratches while being installed and stops rust from forming, ensuring the full life of the product.
- Metal fingers and cover are designed to keep the cabinet environment neat, secure and uncluttered.
- Enables easier circuit identification and administration.

CATALOGUE NUMBER	DESCRIPTION
ACTRJ1UCMPM	1U Cable Management Panel

Cable Management Panel

The Actassi Cable Management Panel is a superior product delivering the best cable management support when used in conjunction with other Actassi Series products.

The panel is a 1 Rack Unit (1U) item designed for use in 19" rack environments, managing patch cords that are connected between patch panels and/or hubs. The product is recommended for mounting between every 2nd row of patch panels/hubs.

The unique clips provide a quick and simple means of installing the panel in the rack or cabinet. Each of the 4 cable management rings have been reinforced to accommodate the capacity for up to 48/24 patch cords. The rings have been designed to facilitate easy insertion and removal of the patch cords, necessary in dynamic environments where movement and changes are unavoidable. Unique design of sliding lockable cover provides better appearance with Actassi patch panel style.

TECHNICAL INFORMATION

ACTRJ1UCMPC	482mm(W) x 100mm(D) x 43mm(H)
ACTRJ1UCMPSC	482mm(W) x 65mm(D) x 43mm(H)



ACTRJ1UCMPC



ACTRJ1UCMPSC

PRODUCT FEATURES

- Rack mount clips eliminate the need for cage nuts and screws.
- Reinforced cable management rings can accommodate up to 50 patch cords.
- Cavities behind each ring provide additional space for cable slack.
- Additional depth on cable rings ensures compliance with minimum bend radius requirements.
- Compliments Actassi Patch Panel styling.

CUSTOMER BENEFITS

- Quick product installation using rack mount clips.
- Rapid insertion and removal of patch cords.

CATALOGUE NUMBER	DESCRIPTION
ACTRJ1UCMPC	1U, Actassi Deep Cable Management Panel
ACTRJ1UCMPSC	1U, Actassi Shallow Cable Management Panel

Actassi Wallplate

C-Cosmo Wall Plates

British Standard

The 2000 Series Wall Plates are compatible with British Standard (83mm x 83mm) dimensions and are designed to accept Actassi Keystone modular jacks.

All 2000 Series Wall Plates come standard with designation labelling behind a clear removable window and provision to insert a coloured icon designating the channel application. Up to 2 Actassi Keystone modular jacks can be inserted into the unshuttered British wall plate.

Channel Application Identification Icons

Channel Application identification is accomplished via colour matched snap-in plastic icons that are preprinted with symbols or text labels.

TECHNICAL INFORMATION

Material	Polycarbonate	
Dimensions (H x W)	Grid Plate only	Grid Plate with Surround
British Standard	85mm x 85mm	86mm x 86mm

CATALOGUE NUMBER	DESCRIPTION
RJ45 Keystone Shuttered Wall Plates	
E2031SRJKI	RJ45 Keystone, Shuttered, 1 Gang Unloaded Outlet Wall Plate, with Channel & Circuit ID Slot
E2032SRJKI	RJ45 Keystone, Shuttered, 2 Gang Unloaded Outlet Wall Plate, with Channel & Circuit ID Slot



E2031SRJKI

PRODUCT FEATURES

- Designed to accept RJ45 Keystone modular jacks.
- Grid plate comes with standard white colour surrounds.
- Protected clear designation label windows.
- Provision on grid plate assemblies and inserts to snap-in coloured plastic icons (icon sold separately).
- Supplied complete with self tapping screws.

CUSTOMER BENEFITS

- Contemporary design will improve the aesthetics of all installations.
- Colour coordinate the interior - select from a wide range of C-Graphic or Metal Finish wall plates and surrounds.
- Complete with all mounting and fixing hardware.
- The front labeling system provides a clear and efficient means of identifying outlets.
- Flame retardant polycarbonate material with finely polished finishing for extra durability, safety and a smarter look.

Australian/US Standard

TECHNICAL INFORMATION

Material	Polycarbonate	
Dimensions (H x W)	Grid Plate only	Grid Plate with Surround
Australian Standard	68mm x 110mm	69mm x 111mm
US Standard	110mm x 68mm	111mm x 69mm

- Text icon labels in seven bright colours preprinted with Category 5e & 6, phone, fax, LAN and ISDN.
- Plus seven brightly coloured image icons in grey, green, purple, blue, yellow, orange and red.

CATALOGUE NUMBER	DESCRIPTION
RJ45 Keystone Wall Plates	
2031HRJKI WE	RJ45, 1 Gang Keystone Wall Plate, with Channel & Circuit ID Slot, Horizontal
2032HRJKI WE	RJ45, 2 Gang Keystone Wall Plate, with Channel & Circuit ID Slot, Horizontal
2033HRJKI WE	RJ45, 3 Gang Keystone Wall Plate, with Channel & Circuit ID Slot, Horizontal
2031VRJKI WE	RJ45, 1 Gang Keystone Wall Plate, with Channel & Circuit ID Slot, Vertical
2032VRJKI WE	RJ45, 2 Gang Keystone Wall Plate, with Channel & Circuit ID Slot, Vertical

Data Wall Plates

ULTI, NEO, ZENcelo, Pieno, Vivace, Arcato



UD31RJ_000
UDC31RJ_S_XGL



E3031RJ5E_GS



E8431RJS_6_S



E8231RJS_5



KB31RJ6



E8131RJS_5

ULTI, NEO, ZENcelo Series Wall Plate is compatible with British standard (85mm x 85mm) requirements. The wall plate is designed to accept up to 2 Keystone modules. Wall plates include shuttered/non-shuttered, designation label, clear label cover, mounting screws and screw covers.

Channel Application Identification Icons

Channel Application identification is accomplished via colour matched snap-in plastic icons that are preprinted with symbols or text labels.

TECHNICAL INFORMATION

Dimensions (H x W)	85mm x 85mm.
Standard	British Standard Grid Plate only

PRODUCT FEATURES

- Designed to accept RJ45 Keystone modular jacks.
- Protected clear designation label windows.
- Supplied complete with self tapping screws.

CUSTOMER BENEFITS

- Complete with all mounting and fixing hardware.
- The front labeling system provides a clear and efficient means of identifying outlets
- Flame retardant polycarbonate material with finely polished finishing for extra durability, safety and a smarter look.
- Very low profile

Retractable Data Wall Plates ULTI and ZENcelo

Traditional Data socket outlet wallplate have been deployed in Hotel room for long time. However, there is no solution to manage the patch cord tidy. As a result, the hotel guest cannot find the patch cord or the patch cord is lost

Retractable data wallplate fit the cable inside the module, so that guest can easily connect to network and the hotel can have a well-manage the cable.

In case of the retractable unit damage, it can be replaced easily. The retractable unit can be removed on the front of module so it don't need to disassembly the complete wallplate from the wall.

TECHNICAL INFORMATION

Dimensions (H x W)	85mm x 85mm.
Standard	British Standard Grid Plate only



UD31RT_XGL



E8431RT_WE



E8431RT_SZ

PRODUCT FEATURES

- Wall Plate: ZENcelo, ULTI
- Colors: ZENcelo – White, Silver Bronze, ULTI – White Glass/ Fine Silver
- Size: Apply to 47mm walbox
- Retractable Length: 0.8 meter,
- Connector: RJ45
- Connection Speed: Up to 100Mbps

CATALOGUE NUMBER	DESCRIPTION
ULTI	
UD31RT_XGL	Retractable Data Outlet, 0.8M, Crystal Glass
ZENcelo	
E8431RT_WE	Retractable Data Outlet, 0.8M, White
E8431RT_SZ	Retractable Data Outlet, 0.8M, Silver Bronze
Replacement Unit	
RJP31RTU	Retractable Data Patch Cord Module, 0.8M

NEO Flexiport Wall Plates

British Standard

The NEO Flexiport wall plates is an exclusive series which makes a statement. Flexiport is the first product to incorporate a swing cradle design in wall plates. The swing cradle contains Actassi shuttered modular jack pivoting on a grid assembly; allowing it to rotate up to 90° and provide multiple angles. With this innovative design, Flexiport wall plates ensure patch cord plug flexibility and reduces the stress of cable bending.

In the world of higher data transmission speeds with more stringent bandwidth requirements and increasingly complex networks a wall plate with effective cable management is more crucial than ever. Actassi Flexiport wall plate represents the next generation of innovative Schneider Electric products.

Based on the NEO product line, these aesthetic, contemporary, British Standard wall plates (85mm x 85mm) are designed to accept up to 2 Actassi shuttered Keystone connectors with Flexiport features. The wall plate includes mounting screws, surround and channel application identification icons. With its flame retardant polycarbonate material, it provides extra durability, safety and smart contemporary aesthetics.

TECHNICAL INFORMATION

Material	Polycarbonate	
Dimensions (H x W x D)	Grid Plate only	Grid Plate with Surround
British Standard	87mm x 85mm x 39mm	87mm x 87mm x 39mm



E3000RJ2AUN_GS



E3000RJ2AUN_WE

PRODUCT FEATURES

- Adjustable outlet jack cradle allow up to 90° inclination to ensure easy access.
- Angled outlet jack cradle to reduce cable bending.
- Classical and stylish design.
- Designed to accept Actassi RJ45 Keystone modular jacks.
- Supplied complete with self tapping screws.
- Flame retardant polycarbonate material with finely polished finishing for extra durability, safety and a smarter look.

CUSTOMER BENEFITS

- Ensures patch cord plug access flexibility and reduces cable bending.
- Contemporary design will improve the aesthetics of all installations.
- Complete with all mounting and fixing hardware.
- Flame retardant polycarbonate material with finely polished finishing for extra durability, safety and a smarter look.

CATALOGUE NUMBER DESCRIPTION

Flexiport Wall Plates, Unloaded

E3000RJ1AUN_GS	1 Gang Flexiport Wall Plate, Unloaded, Grey & Silver
E3000RJ1AUN_WE	1 Gang Flexiport Wall Plate, Unloaded, White
E3000RJ2AUN_GS	2 Gang Flexiport Wall Plate, Unloaded, Grey & Silver
E3000RJ2AUN_WE	2 Gang Flexiport Wall Plate, Unloaded, White

NEO Angle Wall Plates

British Standard

The NEO Angle Wall Plates are compatible with British Standard dimensions and are designed to accept Actassi Keystone modular jack configurations.

Based on the NEO product line and contemporary design, it can support up to 2 Actassi Keystone connectors.

The Wall Plate includes mounting screws, surround and channel application identification icons. With its flame retardant polycarbonate material, it provides extra durability, safety and smart contemporary aesthetics

TECHNICAL INFORMATION

Material	Polycarbonate	
Dimensions (H x W x D)	Grid Plate only	Grid Plate with Surround
British Standard	87mm x 85mm x 43.8mm	87mm x 87mm x 43.8mm

INSTALLATION

Flush mounting and surface mounting

Base box size /Flush mount depth

Surface mounting Box depth ≥ 29mm

Flush mounting Box depth ≥ 35mm



E3031ASGS-EX



E3032ASWW-EX

PRODUCT FEATURES

- Angled design for better performance through smoother cable bending.
- Designed to accept Actassi RJ45 Keystone modular jacks.
- Supplied complete with self tapping screws.
- Flame retardant polycarbonate material with finely polished finishing for extra durability, safety and a smarter look.

CUSTOMER BENEFITS

- Contemporary design will improve the aesthetics of all installations.
- Complete with all mounting and fixing hardware for easier application.

CATALOGUE NUMBER	DESCRIPTION
E3031ASGS-EX	E3000 Angle Wallplate, 1G with Shutter, Grey for Oversea market
E3031ASGS	E3000 Angle Wallplate, 1G with Shutter, Grey for China market
E3031ASWW-EX	E3000 Angle Wallplate, 1G with Shutter, White for Oversea market
E3031ASWW	E3000 Angle Wallplate, 1G with Shutter, White for China market
E3032ASGS-EX	E3000 Angle Wallplate, 2G with Shutter, Grey for Oversea market
E3032ASGS	E3000 Angle Wallplate, 2G with Shutter, Grey for China market
E3032ASWW-EX	E3000 Angle Wallplate, 2G with Shutter, White for Oversea market
E3032ASWW	E3000 Angle Wallplate, 2G with Shutter, White for China market

DeskMount Flexiport

Actassi Deskmount Flexiport incorporates the patented Flexiport™ mechanism and PlanuShut™ modular jacks. The Flexiport™ mechanism allows the swing cradle of modular jacks to rotate up to 90 degree, offering multiple angles and ease of use. The design ensures high patch cord accessibility and flexibility thus reduce cable bending.

The aesthetic, contemporary and compact size Actassi Deskmount Flexiport is fully adaptable to common hole sizes on office furniture. It offers convenient network access, reliable connection, neat and clean cable management.

PHYSICAL SPECIFICATION

Structure diameter	81.20mm
Structure depth	87.5mm
Color	Silver, Grey, & Black
Material	Polycarbonate

ENVIRONMENTAL REQUIREMENTS

Operating Temperature	-5°C to 40°C
Humidity	0 - 95% RH
UV rating	For indoor use only

INSTALLATION

Mounting type	Desk Flush Mounting
No. of cable	4-Pair cable (Twisted Pairs)
Cable sizes	AWG # 22 to 26



OCDM02RJ6S

PRODUCT FEATURES

- Adjustable Outlet Jack Cradle allow up to 90 degree inclination to ensure easy access
- Angle Outlet Jack Cradle as needed to reduce patch cable bending
- Deskmount capabilities
- Designed to accept PlanuShut RJ45 Keystone modular jacks
- Surround comes in 2 common sizes of 60mm and 80mm as to fit for different desk hole dimensions.

CUSTOMER BENEFITS

- Ensure patch cord plug access flexibility and reduce cable bending
- Contemporary design will improve aesthetic of all installations
- Perfect for any deskmount application especially in confined spaces
- Flame retardant Polycarbonate material with finely polished finishes for extra durability, safety and a smarter look

CATALOGUE NUMBER	DESCRIPTION
OCDM02RJ6S	Deskmount Flexiport with PlanuShut Modular Jacks, Category 6, 2-Gang
OCDM02RJ5S	Deskmount Flexiport with PlanuShut Modular Jacks, Category 5e, 2-Gang
OCDM02RJHB	Deskmount Flexiport with Category 6 Data and Voice PlanuShut Modular Jacks

ZENcelo Fiber Wall Plates

British Standard

The Actassi ZENcelo Fiber Wall Plates are compatible with British Standard dimensions and are designed to support FTTD (Fiber-to-the-Desk) application. It supports various Actassi Fiber Adaptors, e.g. ST, SC, LC.

TECHNICAL INFORMATION

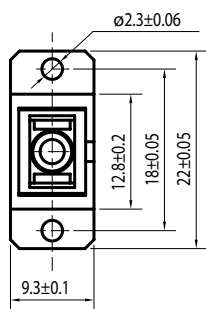
Material	Polycarbonate
Dimensions (H x W x D)	Grid Plate with Surround
British Standard	87.2mm X 87.2mm X 27.7mm

INSTALLATION

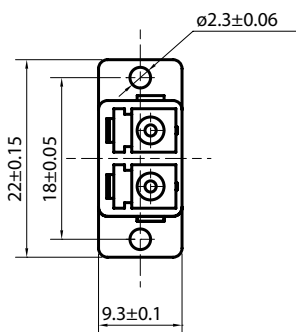
Recommended base box depth ≥ 47mm

Recommended dimension for non Schneider Electric fiber adaptors

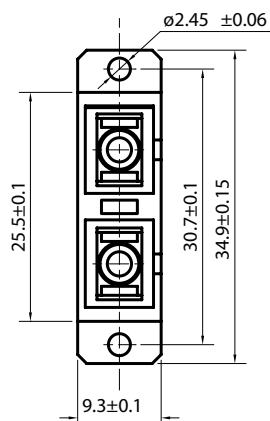
SC Simplex



LC Duplex



SC Duplex



E8431FL



E8431FC



E8431FT

PRODUCT FEATURES

- Angled design for more space in the wall box for better fiber bending radius.
- Designed to accept various fiber adaptors: ST simplex, SC simplex, SC duplex, LC duplex.
- Supplied complete with self tapping screws for easy installation.
- Flame retardant polycarbonate material with finely polished finishing for extra durability, safety and a smarter look.

CUSTOMER BENEFITS

- Enough space reserved behind the wall plate for better bending radius.
- Contemporary design will improve the aesthetics of all installations.
- Complete with all mounting and fixing hardware for easier application.

CATALOGUE NUMBER	DESCRIPTION
E8431FT	ZENcelo Fiber Wall-plate, STx2
E8431FC	ZENcelo Fiber Wall-plate, SC Duplex
E8431FL	ZENcelo Fiber Wall-plate, LC/SC Simplex

Concept Module Jack Adaptor

The enrichment of existing Concept offer range to support the increasing demand for faster and flexible data transmission. It can support various Schneider Electric VDI voice & data keystone jacks.

TECHNICAL INFORMATION

Material	Polycarbonate
Dimensions (H x W x D)	23.2mm X 46mm X 14mm



PRODUCT FEATURES

- Fit perfectly well in Concept surround.
- Both shutter & non-shutter version available.
- Supplied with exchangeable labeling & icon.
- Flame retardant polycarbonate material with finely polished finishing for extra durability, safety and a smarter look.

CUSTOMER BENEFITS

- Labelling & icon for easy network identification.
- Compatible for various keystone jacks offer superior flexibility.
- Shutter & non-shutter versions support different application needs.
- Contemporary design will improve the aesthetics of all installation

CATALOGUE NUMBER	DESCRIPTION
3031RJS	Concept Keystone Jack Adaptor, with shutter
3031RJU	Concept Keystone Jack Adaptor, non-shutter

Miscellaneous

TV Coaxial Outlets

CATALOGUE NUMBER	DESCRIPTION
C-Classic	
E31TV75	1 Gang, 75 Ohm, TV Outlet
E32TV75	2 Gang, 75 Ohm, TV Outlet
E31STVA	1 Gang, Shuttered, TV Outlet
E32A75M	2 Gang, TV Outlet
E31VTV75S	1 Gang, TV Outlet
E31STV3.5CA	1 Gang, Shuttered, Single Line TV Outlet



E31TV75

TV Coaxial Outlets

CATALOGUE NUMBER	DESCRIPTION
Heritage	
1920STV75, BS	75 Ohm, Surface Mounted, Television Socket, Polished Brass
1920SRTV75, BS	75 Ohm, Surface Mounted, Television Socket, Ribbed Polished Brass
1920STV75, AB	75 Ohm, Surface Mounted, Television Socket, Antique Brass
1920SRTV75, AB	75 Ohm, Surface Mounted, Television Socket, Ribbed Antique Brass
1920STV75, CH	75 Ohm, Surface Mounted, Television Socket, Chrome
1920SRTV75, CH	75 Ohm, Surface Mounted, Television Socket, Ribbed Chrome
1920STV75, FB	75 Ohm, Surface Mounted, Television Socket, Florentine Bronze
1920SRTV75, FB	75 Ohm, Surface Mounted, Television Socket, Ribbed Florentine Bronze
ESM Metal Surface Mount	
ESM31TV	1 Gang, TV Outlet
ESM31VTV75, MS	1 Gang, 75 Ohm, TV Outlet
Wilco	
TTV3M0	Trendsetter TV Socket, Flush Mounting 75 Ohm, Coaxial TV Socket Mechanism for TMSI Range



1920SRTV75, BS

C-Cosmo Series

Telecommunication Accessories

CATALOGUE NUMBER	DESCRIPTION
Telephone and Data Outlets	
E2031RJ4	1 Gang 4-Pin RJ11 Telephone Outlet
E2032RJ4	2 Gang 4-Pin RJ11 Telephone Outlet
E2032RJ4/8	2 Gang 4-Pin RJ11 Telephone and 8-Pin Data Outlet
E2031RJ6	1 Gang 6-Pin RJ11 Telephone Outlet
E2032RJ6	2 Gang 6-Pin RJ11 Telephone Outlet
E2031RJ4GA	1 Gang 4-Pin RJ11 Telephone Outlet without Surround
E2031RJ6GA	1 Gang 6-Pin RJ11 Telephone Outlet without Surround
E3406/1M	Telephone Socket, British Standard
E2406MRJ88	2 Gang Telecommunication Outlet BT Master and RJ45
E2406/1MGA	1 Gang 6-Pin Master Unit BT Standard Telephone Outlet without Surround
E2406MRJ88GA	2 Gang Telecommunication Outlet BT Master and RJ45 without Surround
E2032RJ64A	2 Gang 6-Way 4 Contact Telephone Outlet
E2031RJ84A	1 Gang 8-Way 4 Contact Telephone Outlet
E2032RJ84A	2 Gang 8-Way 4 Contact Telephone Outlet
E2031RJ66A	1 Gang 6-Way 6 Contact Telephone Outlet
E2032RJ66A	2 Gang 6-Way 6 Contact Telephone Outlet
E2031RJ86A	1 Gang 8-Way 6 Contact Telephone Outlet
E2032RJ86A	2 Gang 8-Way 6 Contact Telephone Outlet
E2031RJ88A	1 Gang 8-Way 8 Contact Telephone Outlet
E2032RJ88A	2 Gang 8-Way 8 Contact Telephone Outlet
E2031T0	1 Gang Telephone Outlet with Cord Grip
E2032VT0	2 Gang Telephone Outlet with Cord Grip
E2031TOGA	1 Gang Telephone Outlet with Cord Grip without Surround
E2032VTOGA	2 Gang Telephone Outlet with Cord Grip without Surround
E2031RJ8/5A	1 Gang 8-Pin Data Outlet
E2032RJ8/5A	2 Gang 8-Pin Data Outlet
E2031RJ88AB5E	1 Gang 8-Way 8 Contact RJ45 Data Outlet, Category 5e
E2032RJ88AB5E	2 Gang 8-Way 8 Contact RJ45 Data Outlet, Category 5e
E2031RJ88SMB5H	1 Gang RJ45 Data Outlet with Shutter, Category 5e
E2032RJ88SMB5H	2 Gang RJ45 Data Outlet with Shutter, Category 5e



E2031RJ4



E2032RJ64A



E2031T0

C-Classic Series

Telecommunication Accessories

CATALOGUE NUMBER	DESCRIPTION
TV/FM Coaxial Outlets	
E31TV	1 Gang F-Type Connector
E31TVF	1 Gang F-Type Connector
E31TV75	1 Gang Coaxial Outlet
E32TVF	2 Gang F-Type Connector
E32TV75	2 Gang Coaxial Outlet
E32TV75FM	2 Gang Coaxial Outlet with TV/FM Splitter
E32TV75FMS	2 Gang Coaxial Outlet with TV/FM Splitter
E32TV75FM/HKT	2 Gang Coaxial Outlet with TV/FM Splitter
E31STVA	1 Gang Coaxial Outlet with Shutter
E31STV3.5CA	1 Gang Single Line Coaxial Outlet with Shutter
E31VTV75S	1 Gang TV Outlet
E32A75M	2 Gang TV Outlet
E31STVF	1 Gang TV Communication Outlet
E32TVSF	2 Gang TV and F-Connector Socket
E31SF	1 Gang F-Connector Socket - Astro
E32SF	2 Gang F-Connector Socket - Astro
ET31TV/FM-11	2 Gang TV/FM SCV Socket Outlet
ET31TV/FM-10	2 Gang TV/FM SCV Flush Plate
Telephone and Data Outlets	
ET01/2	1 Gang 2-Pin Telephone Outlet
ET01	1 Gang 4-Pin Telephone Outlet
ET01/4	1 Gang 4-Pin Telephone Socket with Shutter
ET02/4	2 Gang 4-Pin Telephone Socket with Shutter
ETC02	2 Gang 6-Pin Telephone Outlet
E31T0	1 Gang Telephone Outlet with Cord Grip
E32T0	2 Gang Telephone Outlet with Cord Grip
E31A38Z	1 Gang Telephone Outlet
E32A38Z	2 Gang Telephone Outlet
E31RJ8/5A	8-Pin Data Socket
E31RJ64SM	1 Gang RJ11 Telephone Outlet
E32RJ64SM	2 Gang RJ11 Telephone Outlet
E31RJ88AB5E	1 Gang RJ45 Data Outlet, Category 5e
E32RJ88AB5E	2 Gang RJ45 Data Outlet, Category 5e
E31RJ88SMB5H	1 Gang RJ45 Data Outlet with Shutter, Category 5e
E32RJ88SMB5H	2 Gang RJ45 Data Outlet with Shutter, Category 5e
E31RJ88SMA5	1 Gang RJ45 Socket Outlet, Category 5e
E32RJ88SMA5	2 Gang RJ45 Socket Outlet, Category 5e
E3406/1M	1 Gang 6-Pin Telephone Outlet, Master Unit
E3406/1S	1 Gang 6-Pin Telephone Outlet, Slave Unit



E31TV75



ET01



E31T0

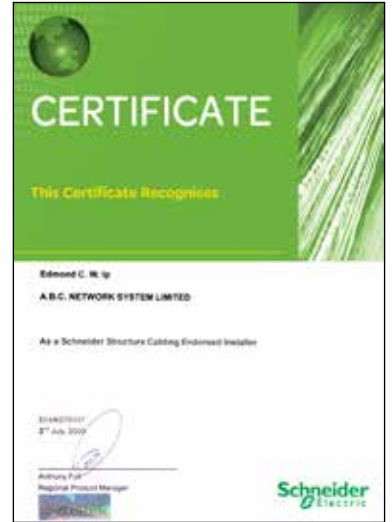
Training & Warranty

Training & Warranty

Schneider Electric VDI offers comprehensive Schneider Endorsed Installer (SEI) training programs for consultants and installers alike.

Basic Training	1 Day
Core Training	2 Days
Refresh Training	1 Day

Installer accreditation is coupled with an innovative 20-Year (Digilink Series) and 30-Year (Actassi Series) system warranty program to provide end users with peace of mind. Customers are assured of worldwide support for their data communications requirements with highest standard of service at a local level.



Technical Information

Network Standard: TIA/EIA-568-C

T568B 'commercial building telecommunications cabling standard'

- i. Planning and installing of structured wiring systems.
- ii. Cable specification, performance and installation requirements.
- iii. Physical star topology.
- iv. Cabling division: Horizontal & Backbone.

Horizontal

- i. Cabling installed between the telecommunications closet and wall outlet.
- ii. Maximum distance of 90m for UTP and fibre from closet to outlet, 5m for workstation jumpers and 5m for cross connect jumpers and patch cords.
- iii. Two wall outlets per workstation:
 - one cable must be 4-Pair UTP
 - other cable can be any of the recognized media
- iv. Recognised media:
 - 4-Pair, 100 Ohm UTP
 - 4-Pair 100 Ohm ScTP
 - 62.5µm Fibre
 - 50µm Fibre

Backbone

- i. Cabling between equipment rooms, entrance facilities and telecommunications closet
- ii. Conventionally, vertical shaft cable; but also used in a Star Topology in a campus type network.
- iii. Recognised media:
 - 100 Ohm Multipair UTP
 - 4-Pair 100 Ohm ScTP
 - 62.5µm Fibre & 50µm Fibre, Multi-Mode
 - Single-Mode Fibre

Work Area

- i. Cabling extended from telecommunications outlet to work station equipment.
- ii. Work area cord and balun with a maximum length of 5M.

Telecommunications Room(s)

- i. Termination of Horizontal and Backbone cables to the compatible with connecting hardware.
- ii. Recognised media:
 - patch cord
 - wire jumper
 - connecting hardware

Equipment Room(s)

- i. Provides a controlled environment to house telecommunications equipment and protection apparatus where applicable.

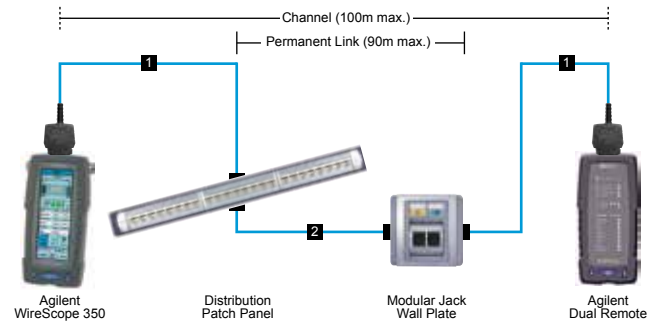
Entrance Facilities

- i. Demarcation point between access provider and the customer's premises cabling.
- ii. Electrical protection.
- iii. Grounding and bonding.

Twisted-Pair Performance

Permanent Link Model

Permanent link consists of up to 90m horizontal cabling, including a connector at each end and a maximum of 2m test equipment cord at each end.



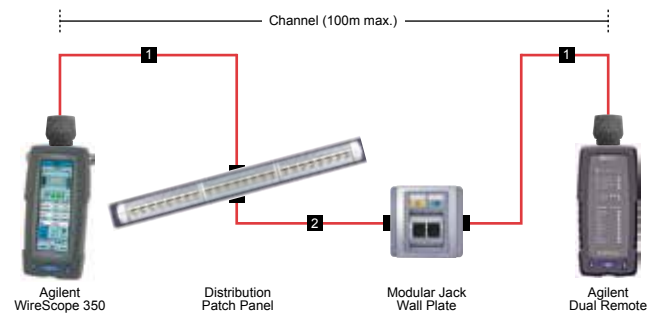
1 Smart Probe Link
 2 4-Pair UTP Solid Horizontal Cable*
 *Category 5e or Category 6 configurations may be used depending on chosen application.

Channel Model

The following figure shows a channel including the cabling components that determine the channel performance.

The components that make up the channel consists of the following:

- telecommunications outlet.
- balance twisted-pair cable at 90m.
- cross-connect systems.
- a total of 10m of equipment, line and patch cords.
- consolidation point.



1 Patch Cord & Workstation Cords*
 2 4-Pair UTP Solid Horizontal Cable*
 *Category 5e or Category 6 configurations may be used depending on chosen application.

Note: The channel model specified in ANSI/TIA/EIA-568-C does not include the connectors at either end (at the hub or the station).

Solid vs. Stranded Cable

UTP Solid Cable

For runs between Building Distributor and Floor Distributor to a wall plate, choose regular UTP cable. These solid-conductor cables, designed for horizontal and backbone cable runs should not be flexed, bent or twisted repeatedly and should be installed in accordance with recommended installation guidelines.

UTP Stranded Patch Cable

Use stranded patch cable for connecting your workstation NICs to the wall plate, with patch panels and with other equipment such as switches. Since it is made with stranded wires, stranded patch cable is excellent for applications that call for repeated flexing without damaging the cable.

Since attenuation is higher in stranded cables than in solid-conductor cables, you should try to keep these cable runs short to lower the chance of introducing even more attenuation into your system. It is best to keep lengths of stranded patch cables under 5.0 metres, and if a total cord length of 10m per channel is to be exceeded, then the PL discounting formulae must be applied.

Unshielded vs. Shielded Twisted Pair Cable

In 'noisy' environments such as airports and manufacturing facilities, shielded cable is preferred. These environments contain radio frequency interference (RFI) and/or electromagnetic interference (EMI). The shielding protects the data being transmitted through the cable and it keeps the cable itself from emitting EMI and RFI.

Cables feature the same core and jacket as the widely used Unshielded Twisted Pair (UTP) cables. And they contain a drain wire and foil shield that covers all four pairs. The plugs are also shielded. S/FTP cables use individually screened pairs with an overall braid shield, which sets them apart from less expensive FTP (F/UTP) cables.

Choosing Fibre Type

As a general guideline in premises applications for backbone cabling:

- a) 62.5/125µm or 50/125µm Multi-Mode optical fibre is recommended for:
 - Distances of 2km and under for OM1, OM2 optical fibre types in both 850nm and 1300nm wavelengths.
 - Data rates of 1000Mb/s and beyond.
- b) Single-Mode fibre is recommended for greater distances or higher data rates:
 - Distances of 3km and under for OS1 in both 1310nm and 1550nm wavelengths.
 - Data rates up to 10 Gb/s IEEE802.3:10GBASE-LR/LW + ER/EW respectively.

Often, a backbone comprised of both Multi-Mode and Single-Mode fibre is recommended to satisfy present and future needs in the backbone.

- a) For horizontal cabling, 62.5/125µm or 50/125µm Multi-Mode optical fibre is recommended for:
 - Distances up to 90m.
 - Data rates up to 1Gb/s.
- b) For centralised cabling, 50/125µm Multi-Mode optical fibre is recommended for:
 - Distances up to 300m.
 - Data rates up to 10Gb/s.

Always follow the original equipment manufacturer (OEM) electronic equipment specifications for optical fibre core size when designing an optical fibre telecommunications system. Contact the OEM if:

- Specifications vary from the 62.5/125µm or 50/125µm Multi-Mode standard.
- The fibre is used for a unique application.

The most common identification of fibres is in 12-fibre groups with each group colour coded as follows:

(1) Blue	(5) Grey	(9) Yellow
(2) Orange	(6) White	(10) Violet
(3) Green	(7) Red	(11) Light Blue/Aqua
(4) Brown	(8) Black	(12) Pink

Note: OM3 Multi-Mode Optical fibre can now support 10Gb/s IEEE 802.3:10GBASE SR/SW.

Segregation of UTP/STP from Power Cable

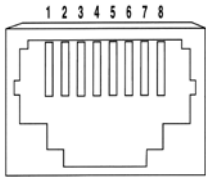
When routing UTP cable, maintain the following minimum distances from power source:

- 15cm (6 in.) from powerlines of 2 KVA or less.
- 30cm (12 in.) from lighting (including fluorescent).
- 90cm (36 in.) from powerlines of 5 KVA or greater.
- 100cm (40 in.) from transformers and motors.

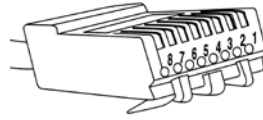
When routing STP cable, maintain the following minimum distances from power source:

- 6.5cm (3 in.) from powerlines of 2 KVA or less.
- 15cm (6 in.) from powerlines of 2 KVA or less.
- 30cm (12 in.) from lighting (including fluorescent).
- 90cm (36 in.) from powerlines of 5 KVA or greater.

Sequence Options

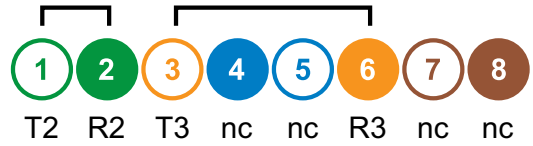


RJ-45 Modular Jack Female



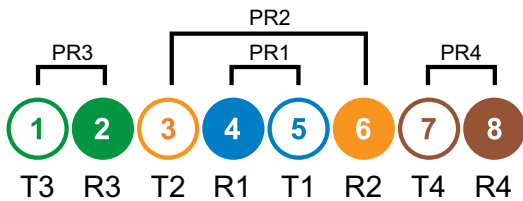
RJ-45 Modular Jack Male

Sequence is defined as the order in which the incoming pairs are terminated into the modular interface pins. Each pair is designed as a Transmit conductor and a Receive conductor.



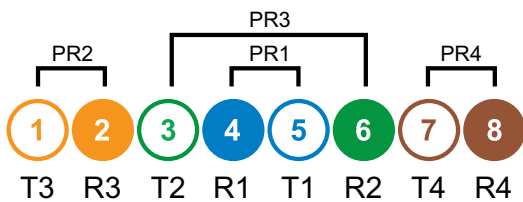
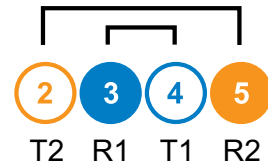
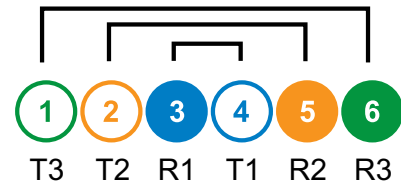
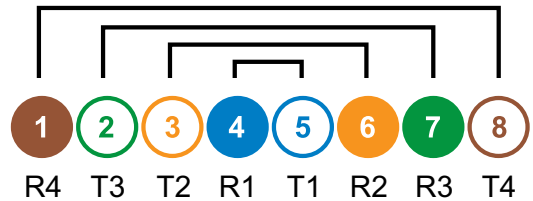
10 Base-T

Used with the WE8W polarisation, this is a modification of the EIA 568B sequence, leaving pair #1 open and starting with pair #2. This provides an additional level of protection from interconnection of voice and data equipment. If voice equipment is always wired on pins 4 and 5 (pair #1), and data equipment never has pins 4 and 5 active, no interconnection is possible.



T568A

This is the preferred connection sequence for Australia and New Zealand as stated in AS/NZS 3080-1885; also the EIA Commercial Cabling Specification Draft 9.0 for termination of UTP data cable. The international standard for ISDN also states this standard. This is similar to the T568B sequence except that pairs #2 and #3 are transposed. This provides backward compatibility to the USOC sequence for two pairs instead of the single pair of 568B.



T568B

This is the preferred connection sequence for the U.S. and is derived from ISO 11801 and is a sub-set of IEEE 802.3 10 Based-T Ethernet over twisted pair. This standard is only applicable to eight wire polarisation (WE8W). In the T568B sequence, pair #1 and pair #3 correspond to pair #1 and pair #2 of the USOC sequence, providing backward compatibility with 2 pair systems (such as analogue voice). Pair #1 is therefore designated as 'T1 and R1'. The sequence defines which pins of the modular interface are defined as T1, R1, T2, R2 etc. Some sequences are only applicable to certain polarisation.

Universal Service Order Code (USOC)

Historically was the most common sequence and is used by US telephone system. Pairs are 'nested', i.e. pair #1 is centred, pair #2 is the next two contacts out, etc. This maintains pair-to-pair continuity when, for instance, one pair equipment is connected through a 4 pair circuit. Nesting of pairs also enables a reversal to be made within each pair through the use of simple 'reversing' line cord (1 to 8, 2 to 7).

USOC is applicable to WE2W, WE4W, WE6W and WE8W polarisations. An advantage of the pair nesting of the USOC sequence is that a WE4W/6W plug inserted into a WE8W jack works fine as long as quality (correctly toleranced) components are used.

Note: USOC pin/pair sequences are rarely used outside of North America.

Glossary

°C	Degrees Celsius
10BASE-T	An implementation of the Institute of Electrical and Electronic Engineers (IEEE) Ethernet standard on 24AWG, unshielded, twisted-pair wiring, a baseband medium of 10Mb/s.
100BASE-T	Official project name for 100Mb/s Fast Ethernet on CLASS C.
100BASE-TX	100Mb/s Fast Ethernet using 2-pair Category 5 cable.
1000BASE-T	A specification for Gigabit Ethernet over copper wire (IEEE Standard 802.3ab). The standard defines 1Gb/s data transfer over distances of up to 100 metres using four pairs of CLASS D balanced copper cabling and a 5-level coding scheme.
1000BASE-TX	A specification for Gigabit Ethernet over copper wire (TIA/EIA). The standard defines 1Gb/s data transfer over distances of up to 100 metres using four pairs of Category 6 balanced copper cabling.
10GBASE-LX4 ER/EW, SR/SW LR/LW	IEEE specification of 10 Gigabit Ethernet over optical fibre cabling, with specifications for Multi-Mode and Single-Mode fibre.
10GBASE-T	A standard (IEEE 802.3an) released in 2006 to provide 10Gb/s connection over unshielded or shielded twisted pair cables over distances up to 100 metres.
802.3	Defined by the Institute of Electrical and Electronic Engineer (IEEE), these standards govern the use of the Carrier Sense Multiple Access/Collision Detection (CSMA/CD) network access method used by Ethernet networks.
802.5	Defined by the Institute of Electrical and Electronic Engineer (IEEE), these standards govern the use of the token ring network access method.
802.11	Defined by the Institute of Electrical and Electronic Engineer (IEEE), these standards govern the use of wireless LANs.
A	<i>See Ampere (A)</i>
Adaptor	A device that (1) enables different sizes or types of plugs to mate with one another or to fit into an information outlet, (2) provides for the rearrangement of leads, (3) allows large cables with numerous wires to fan out into smaller groups of wires, or (4) makes interconnections between cables.
American National Standards Institute (ANSI)	ANSI is the principal group in the United States for defining standards. ANSI represents the U.S in the International Standards Organisation (ISO).
American Wire Gauge (AWG)	The standard gauge for measuring the diameter of copper, aluminium, and other conductors.
Ampere (A)	A standard unit of current. One ampere of current is produced by one coulomb of charge passing a point in one second.

Analogue Transmission	A method of signal transmission in which the shape of the signal is a continuously variable and directly measurable physical quantity.
ANSI	<i>See American National Standards Institute (ANSI)</i>
ANSI/TIA/EIA 568B/C	North American Commercial Building Telecommunications Wiring Standard.
ANSI/TIA/EIA 569B	North American Commercial Building Standard for Telecommunications Pathway and Spaces. Its purpose is to standardise specific design and construction practices within and between buildings which are in support of telecommunications media and equipment.
ANSI/TIA/EIA 606A	North American Administration Standard for the Telecommunication Infrastructure and Commercial Buildings. Its purpose is to provide guidelines for uniform administration scheme for cabling infrastructure.
Application	A system, with its associated transmission method which is supported by telecommunications cabling.
Asynchronous Transfer Mode (ATM)	ATM is a high speed (155Mbps/622Mb/s) cell relay, switching and transport technology for either local or wide area environments.
Attachment Unit Interface (AUI)	Most commonly used with reference to the 15-pin D-type connector and cables used to connect single and multiple channel equipment to an Ethernet transceiver.
Attenuation	The effect of signal reduction, experienced with accumulation line length or distance of radio transmission.
Attenuator	A device inserted into the electrical or optical path to lessen or weaken the signal.
Australian Standard/ New Zealand (AS/NZ)	Joint Australian and New Zealand standards.
Balanced Coupler	A coupler having an even ratio of power splits. i.e. 1x4-25/25/25/25.
Bandwidth	The range of frequencies that can be used for transmitting information on a channel. It indicates the transmission - carrying capacity of a channel. Thus, the larger the bandwidth, the greater the amount of information that can pass through the circuit. Measured in Hertz MHz km (for fibre) or MHz.
Bend Loss	A form of increased attenuation caused by either having the fibre curved around a restrictive radius of curvature, or microbends caused by minute distortions in the fibre imposed by externally induced perturbations. Excessive bend loss may result from poor drawing or cable manufacturing techniques.
Bend Radius	The radius of curvature that fibre or copper can bend without breaking or causing excessive loss.

Bidirectional	The movement of signals in opposite directions through a common cable.	CATV	An acronym for cable television, derived from Community Antenna Television.
Broadband	Networks in which the bandwidth can be shared by multiple simultaneous signals that are encoded using modulation techniques.	Characteristic Impedance	A frequency-dependant resistance that quantifies the Complex opposition to current flow offered by a transmission line. (Expressed as Z° and typically 100 - 2).
Buffer	The plastic material that surrounds the core and cladding of an optical fibre strand. This coating adds strength and flexibility to the fibre strand. Typically 250 μ m in size.	Circuit	A two-way communication path between electronic devices.
Cable Assembly	Cable that has connectors installed on one or both ends. General use of these cable assemblies includes the interconnection of cable systems. If connectors are attached to only one end of the cable, it is known as a Pigtail. If connectors are attached to both ends, it is known as a jumper or patch cord.	Cladding	The low refractive index material that surrounds the core of an optical fibre, usually pure silica (typically 125 μ m).
Cable Fill	The ratio of cable installed into a conduit/trunking against the theoretical maximum capacity of the conduit/trunking.	Client-Server	A technique by which processing can be distributed between nodes requesting information (clients) and those maintaining data (servers).
Cabinet	A physical enclosure for rack-mount equipment; standard cabinets have 19" wide horizontal spacing between mounting rails.	Coating	A protective layer of material over the cladding of an optical fibre (typically 250 μ m).
Cabling	A system of telecommunication cables, cords and connecting hardware that can support the connection of information technology equipment.	Coaxial Cable (Coax)	A cable with a centre conductor surrounded by thick dielectric, surrounded by a conductor made of metal braid. An outer jacket insulation is optional.
Capacitance	The property in a system of conductors and dielectrics that permits the storage of electrically separated charges whenever a difference in potential exists between the conductors. Capacitance is undesirable in copper wire cable because it interferes with signals travelling on the wire by opposing the desired flow of current.	Composite Cable	A cable construction technique that combines multiple cables or media in a single overjacket.
Category 3	For cable and connecting hardware products with transmission characteristics specified to 16MHz, typically used to support digital transmission of 10Mb/s.	Conductor	A medium such as copper wire that can carry electrical current.
Category 5e	This is an enhanced version of Category 5, with additional parameters specified to enable parallel transmission with full duplex across the four pairs. Category 5e specifications for cable and connecting hardware products with transmission characteristics specified to 100MHz, intended to support digital transmission of 1000Mb/s.	Conduit	A pipe, usually metal, that runs underground from floor to floor, or along a floor or ceiling to protect cables. In Riser Backbone Subsystems when riser telecommunication closets are not aligned, conduit is used to protect cable and provide the means for pulling cable from floor to floor. In the horizontal Subsystem, conduit may be used between a telecommunication closet and an information outlet in an office or other room. Conduit is also used for in-conduit campus distribution, where it is run underground between buildings and intermediate manholes and is made of plastic encased in concrete.
Category 6	For cable and connecting hardware products with transmission characteristics specified to 250MHz, used to support digital transmission of 1Gb/s and above.	Connecting Block	A flame-retardant plastic block containing metal wiring terminal (IDC's) that establishes an electrically tight connection between the cable and the cross-connect wire.
Category 6a	For cable and connecting hardware products with transmission characteristics specified to 500MHz. It can support 10G bit/s applications up to a maximum distance of 100 metres.	Connector	A device that allows you physically to connect and disconnect copper wires or fibres to cable equipment or to other wires or fibres. Copper wire and fibre optic connectors must often join transmission media to equipment or crossconnects.
Category 7	For cable and connecting hardware products with transmission characteristics specified to 1000MHz.	Core	The central transmission area of fibre. The core always has a refractive index higher than that of the cladding.
		Cords	A short length of copper wire or fibre optic cable with connectors on each end. Used to connect equipment to cabling, or to connect cabling segments (cross-connection).
		Coulomb (C)	A quantity of electricity transferred by a current of one ampere in one second.

Coupling	Transfer of light into or out of an optical fibre. <i>Note: Coupling does not require a coupler.</i>	Distributor	The term used for the function of a collection of components (for example, patch panels, patch cords) used to connect cables
Coupler	A device that connects three or more fibre ends, dividing one input between two or more outputs or combining two or more inputs into one output.	Drop Cable	The coaxial cable that connects the feeder portion of the distribution system to the subscriber's premises.
CRC	<i>See Cyclic Redundancy Check (CRC)</i>	Duplex	A duplex cable contains two fibres, a duplex connector links two pairs of fibres.
Cross-Connect	A facility enabling the termination of cable elements and their interconnection, primarily by means of Patch Cords or jumpers.	ANSI/TIA/EIA	North American Standards organisation
Crosstalk	An electromagnetic coupling between two physically isolated circuits in a system. This coupling causes a signal on one circuit to induce a noise voltage on adjacent circuits, thereby causing signal interference.	ANSI/TIA/EIA/568B	North American commercial building telecommunications wiring standard.
Cyclic Redundancy Check (CRC)	A coded sequence of information allowing error checking and correction.	ANSI/TIA/EIA/569B	North American commercial building standard for telecommunication pathways and spaces. Its purpose is to standardise specific cabling accommodation practices within and between buildings which are in support of telecommunication media and equipment.
Data Communication Equipment (DCE)	General terminology for data communication equipment such as modems. A device that terminated a data communication session and provides encoding or conversion if necessary. <i>See also Data Terminating Equipment (DTE).</i>	ANSI/TIA/EIA/T606A	North American administration standard for the telecommunications infrastructure of commercial buildings. Its purpose is to provide guidelines for a uniform administration scheme for the cabling infrastructure.
Data Terminating Equipment (DTE)	The term used to describe any type of computer or other equipment, when connected to a data communication network	Electromagnetic Compatibility (EMC)	The ability of a system, equipment or device to operate satisfactorily in its environment without introducing unacceptable electromagnetic disturbance, or being affected by that environment.
Decibel (dB)	A unit used to measure relative increase or decrease in power, voltage or current using a logarithmic scale.	Electronics Industries Association (EIA)	North American Electronics Association.
Delay Skew	Delay skew is the difference in propagation delay between pairs within the same cable sheath.	Electromagnetic Flux	Electric and magnetic fields (commonly referred to as emission) generated by equipment or system.
Dielectric	A non-conducting or insulating material that resists passage of electric current.	Electromagnetic Interference	The interference in signal transmission or reception caused by the radiation of electric and magnetic fields(EMI).
Dielectric Cable	A non-conducting cable, such as fibre optic cable, without metallic members.	EMC	<i>See Electromagnetic Compatibility</i>
Dielectric Constant	The ratio of the capacitance of the insulated wire to that of the same wire uninsulated in air.	EMI	<i>See Electromagnetic Interference</i>
Dielectric Strength	A measure of the maximum voltage that the insulation of a particular cable can withstand without breakdown.	EN 50173	The European standard for generic cabling for customer premises similar to ISO/IEC 11801.
Digital Signal	A signal that represents information by a series of fixed, encoded rectangular pulses, usually consisting of two possible levels. Each voltage level indicates one of two possible values or logic states, such as on or off, open or closed, true or false.	EN 50174	A proposed European cabling system planning & installing standard developed by CENELEC similar to EIA/TIA 569A.
Digital Transmission	A technique in which all information is converted into binary digits for transmission.	Equipment Cable	A cable connecting equipment to a distributor.
Dispersion	The tendency of light to spread out and lose its focus in fibre optic cables.	Equipment Room	The room in which voice and data common equipment is housed, protected, and maintained and where circuit administration is done using distribution cross-connects.

Equipment Subsystem	The part of a premises distribution system that includes the cable and distribution components in an equipment room and that interconnects system-common equipment, other associated equipment, and cross-connects.	Fibre Optic Cross-Connection	Fibre optic apparatus for terminating cable. Designed for high-density cross-connection fields, the apparatus can terminate multiple fibres on each shelf. Single shelves can also be wall mounted. Cross-connections are handled with fibre optic Patch Cords. <i>See also Patch Cords</i>
Ethernet	The common name for the most widely used local area network (LAN), generally conforming to the Institute of Electrical and Electronic engineers (IEEE) 802.3 Standard.	Fibre Optic Interconnect	It provides interconnection for individual optical fibre but, unlike the fibre optic cross-connect panel, it does not use patch panel cords or jumpers. The fibre optic interconnect provides some capability for routing and re-routing circuits, but is usually used where circuit rearrangements are infrequent.
ETL	Electrical Testing Laboratory (US).	Fibre Optic Splice	A fibre optic cable splice is used to join together 2 fibre optic cable ends, permanently (mechanical or fusion).
Far End Crosstalk (FEXT)	Refers to the undesired coupling of signals from the transmit pair onto (FEXT) the receive pair at the other (=far) end. FEXT loss is also expressed in dB. For some applications this is an important parameter, for most applications however, the NEXT values are more important.	Foil Screened Twisted Pair Cable (FTP)	A cable that uses a metallic foil to surround the conductors in a twisted Pair Cable. FTP is used mostly by the ISO/IEC. USA uses 5cTP.
Fast Ethernet	A 100Mb/s LAN Based On CSMA/CD Protocol. <i>See 100BASE-T</i>	Frame	A metallic structure for hanging switch hardware.
Federal Communication Commission (FCC)	A board of five commissioners, appointed by the president (US) that regulates all electronic communications systems originating in the United States, including telephone systems.	Frequency	The number of cycles completed by a signal in one second: measured in Hertz (Hz).
Ferrule	The alignment sleeve portion of an optical connector.	FTP	<i>See Foil Screened Twisted Pair Cable.</i>
Fibre	Any filament or fibre that guides light. <i>See also Fibre Optics.</i>	Full Duplex	In contrast to half-duplex devices, full duplex ones allow permanent, simultaneous two-way transmission of information, without interaction or interference of receive and transmit signals.
Fibre Channel	This is an ANSI standard describing point and switched point to point physical interface, transmission protocol, signalling protocol, services and command set mapping of a high performance serial link for uses between mainframe computers and computer peripherals.	Fusing	The actual operation of joining fibres together by fusing or melting. (e.g. fusion splicing).
Fibre Distributed Data Interface (FDDI)	An American National Standards Institute (ANSI) standard for a fibre-based token ring physical and data link protocol that operates at a 100Mb/s data transfer rate.	Gauge	A measure of a conducting wire's physical size; usually referred to as AWG (American Wire Gauge). <i>See also American Wire Gauge (AWG).</i>
Fibre Optic	A fibre optic cable in which individual optical fibres are formed into a cable.	Graded-Index Fibre	Fibre design in which the refractive index of the core is lower toward the outside of the fibre core and increases toward the center of the core allows light to travel faster in the lower index of refraction region. This type of fibre provides high bandwidth capabilities.
Fibre Optics	A technique of conveying light or images through glass or plastic fibres.	Half Duplex	A telecommunication device allowing two-way transmission of signals or other information, but only in one direction at a time. Thus a half-duplex device cannot simultaneously transmit and receive, though interspersed burst in each direction are possible.
Fibre Optic Cable	A transmission medium consisting of a core of glass or plastic surrounded by a cladding, strengthening material and outer jacket. Signal are transmitted as light pulses, introduced into the fibre by a light transmitter (either a laser or light-emitting diode [LED]). Some of the advantages offered by fibre optic cable are low data loss, high speed transmission, large bandwidth, small physical size, light weight, and freedom from electromagnetic interference and grounding problems.	Headend	The central facility where signals are combined and distributed in a cable television system.
Fibre Optic Connectors	Connectors designed to connect and disconnect either single or multiple optical fibres repeatedly. Fibre optic connectors are used to connect fibre cable to equipment and interconnect cables.	Hertz (Hz)	The standard unit of frequency; equal to one cycle per second.
		Horizontal Cable	A cable connecting the floor distributor to the telecommunications outlet(s).
		Insulation Displacement	A type of wire terminating connection in which the insulating

Contact (IDC)	jacket is cut by the connector when the wire is inserted.	LAN	<i>See Local Area Network.</i>
Institute of Electrical and Electronic Engineers (IEEE)	This organisation is also involved in producing Local Area Network standards such as Ethernet and Token Ring.	Link	The transmission path between any two interfaces of generic cabling. It excludes equipment cable and work area cables.
Insertion Loss	The amount of signal loss (attenuation) as the signal passes through a connection, interface, or channel.	LIU	Live interface unit.
Insulation	A material having high resistance to flow of electric current. Thin conducting wires are covered with colour coded insulation for protection.	Laser	A device that amplifies light waves and concentrates them in a narrow, very intense beam.
Insulation Resistance	The measure of ability of an insulation material to resist the flow of current through it; usually measured in Megohm.	Light Emitting Diode (LED)	A device used in a transmitter to convert information from electric to optical form. It typically has a large spectral width.
Interconnect	A circuit administration point, other than a cross-connect or information outlets, that provides capability for routing and re-routing circuits. It does not use patch cords or jumpers. Typically it is a jack and plug device used in smaller distribution arrangements or to connect circuits in large cables to those in smaller cables.	Local Area Network (LAN)	A data communication network consisting of host computers or other equipment interconnected to terminal devices, such as personal computers, often via twisted-pair or coaxial cables. LANs allow users to share information and computer resources. Typically, a network is limited to a single premises.
Interference	A signal impairment caused by the interaction of another unwanted signal.	Loose Tube	A protective tube loosely surrounding a fibre is often filled with gel for external plant applications.
Integrated Services Digital Network (ISDN)	A CCITT standard providing switched end to end simultaneous handling of digitised voice and data traffic.	Macrobending	Excess bending in fibre.
International Standard Organisation (ISO)	The organisation responsible for the Open Systems Interconnect (OSI) standards.	Mechanical Splicing	One of several available devices for splicing fibres in lieu of fusion splicing. Mechanical splices are primarily designed for any environment where a permanent, low loss joint is required.
Interoperability	The ability to operate and exchange information in a heterogeneous network.	Megabit (Mb)	One million binary bits.
ISO/IEC 11801	An international standard for generic cabling for customer premises. (AS/NZS 3080 is derived from this standard)	Megabits per second (Mbps)	Rate of data transmission.
ISO/IEC 14763-1	The international standard for basic administration of generic cabling.	Megahertz (MHz)	One million Hertz (cycles per second)
Jack	A receptacle used with a plug to make electrical contact between communications circuits. Jacks and their associated plugs are used in a variety of connecting hardware applications including adaptor, information outlets, and equipment connections.	Microbending	Bends in the fibre, usually of a radius less than 1mm, that cause a localised increase in the loss of the fibre due to the leaking of light through the core-cladding interface.
Jacket	The flexible covering of a cable, used to protect the colour coded conductors inside.	Micron (mm)	A micrometre; one-millionth of a metre.
Jumper	A cable unit or cable element without connectors used to make a connection on a cross-connect.	Modem	A modulator/demodulator unit used for data transmission. It converts digital data into analogue tones when transmitting over standard voice-grade telephone lines and reverses this process when receiving.
Jumper Wire	A short length of copper wire used to route a circuit by linking two cross-connect termination points.	Modulation	Coding of information onto the carrier frequency. This includes amplitude, frequency or phase modulation techniques.
Kevlar	An aramid yarn used to provide crush resistance and pulling strength in a fibre cable. Kevlar is a trademark of the Du Pont Company.	Multifibre Cable	An optical cable that contains two or more fibres, each of which provides a separate information channel.
		Multi-Mode	Many light rays (modes) propagating through the fibre core.
		Multi-Mode Fibre	Optical Fibres that have a large core and that permit nonaxial rays or modes to propagate through the core. 62.5 or 50 micron are the common standard core sizes for premises cabling systems.

Multiplexing	The process of combining multiple signals, usually by time – division multiplexing (TDM) on a high-frequency carrier, to optimise the use of available transmission media.	Outlets	A term used to describe the sockets provided in the work location of a Structured Cabling System. These are usually 8-pin modular sockets which can support a variety of service e.g. voice, video and data. (e.g. RJ45)
Nanometre (nm)	A unit of length in the metric system denoting one-billionth of a metre. (10nm) Measure of wavelength.	Pair	Two wires (usually twisted) together and marked with reciprocal reciprocal colour coding. <i>See also Twisted Pair.</i>
Near End Crosstalk (NEXT)	Refers to the undesired coupling of signals from the transmit pair onto the receive pair on the same (near) end. NEXT isolation is expressed in dB and is a measure of how well the pairs in a cable are isolated from each other.	Passive Device	A static device that requires no power for its intended function.
Network	The local and long-distance telecommunications capability provided by common carriers for switch and private line telecommunications services.	Patch Cord(s)	A short length of copper wire or fibre optic cable with a connector on each end used to join communication circuits as a cross-connect.
Network Architecture	Network topology and design.	Patch Panel(s)	A cross-connect designed to accommodate the use of Patch Cords. It facilitates administration for moves and changes.
Network Interface	The point of interconnection between building communications wiring and outside communications lines (telephone company facilities e.g. MDF).	PCB	Printed Circuit Board.
Network Interface Card (NIC)	The piece of equipment that is installed into the expansion port of a personal computer and allows communication between the PC and the network.	Pigtail	Fibre optic cable that has connectors installed on one end. <i>See also Cable Assembly.</i>
Node(s)	A piece of communication equipment on the network.	Plenum Cable	Cable specifically designed for use in a plenum, the space above a suspended ceiling used to circulate air back to the heating or cooling system in a building. Plenum cable has insulated conductors often jacketed with TEFLON or HALAR on the copper and low smoke PVC on fibre optics to give them low flame-producing and low smoke producing properties.
Noise	The term used for spurious signals produced in a conductor by sources other than the transmitter to which it is connected. Noise can affect a legitimate signal to the extent that it is inaccurate or indecipherable when it reaches the receiver. The higher the speed of data transmission, the worse the effects of noise.	Polyvinyl Chloride (PVC)	A flame-retardant thermoplastic insulation material that is commonly used in jacks or building cables.
Numerical Aperture	The number that expresses the light gathering ability of a fibre.	Port	The cable terminations in the equipment system at which various types of communication devices, switching equipment, and other devices are connected to the transmission network.
Ohm(w)	The standard unit of electrical resistance. One volt will cause one ampere of current to flow through one ohm of resistance.	Power Sum	A method of testing and measuring crosstalk in multi-pair cables that accounts for the sum of crosstalk affecting a pair when all other pairs are active.
Open System Interconnection (OSI) (Model)	The model describes the 7-layer process of communication between ‘co-operating’ computers. The model provides a standard for the development of communication protocols allowing for computers of different manufacturers to be interconnected.	Primary Rate Interface (PRI)	ISDN standard interface comprising 23 B+1D Channel for North America, and 30B+1D Channel for Europe. <i>Integrated Services Digital Network (ISDN).</i>
Optical Connectors	<i>See Fibre Optic Connectors.</i>	Propagation Delay	A signal travelling from end to end of a link is delayed in time by an amount equal to the length of cable divided by the velocity of propagation for that transmission medium. The delay is called Propagation Delay.
Optical Fibre	A transmission medium consisting of a core of glass or plastic surrounded by a cladding. Signals are transmitted as light pulses, introduced into the fibre by a light transmitter i.e. Laser or an LED.	Protocol(s)	A rule of procedure by which computer devices intercommunicate. Thus a protocol is the equivalent of a human language, with punctuation and grammatical rules.
Optical Time-Domain Reflectometre (OTDR)	An instrument that characterises cable loss by measuring the of injected light as a function of time. It is useful for estimating attenuation and for locating splices, connecting and breaks.	Pulling Tension	The amount of pull placed on a cable during installation. Expressed in Newton-metres or foot-pounds.
		Registered Jack (RJ)	Acronym describing Modular Jacks in 4 (RJ11), 6 (RJ12) and

	8 (RJ45) wire versions.
Resistance	The property of a conductor that determines the current produced by a given potential difference. It impedes the flow of current and results in the dissipation of power as heat. Resistance is measured in Ohms.
Return Loss	The Channel Return Loss (RL) is a measure of the consistency of the impedance down the length of the cable, the connections and the patch cables.
Riser(s)	The term used to describe a space utilised by backbone cabling to house communications cabling and other building services. This space should preferably be specified, or allowed for, at the time of the building design.
Riser Backbone Subsystem	The part of a premises distribution system that includes a main cable route and structure for supporting the cable from an equipment room (often in the building basement) to the upper floors, or along the same floor, where it is terminated on a cross-connect in a telecommunications room, at the network interface, or at distribution components of the Campus Backbone Subsystem. The Riser Backbone Subsystem usually extends from an equipment room (often in a building's basement) to the upper floors in a multistorey building, or along the same floor in a low-rise building. It is terminated on a cross-connect in a riser telecommunication room, at the network interface, or on distribution components of the Campus Backbone Subsystem.
Riser Cable	Used in applications for indoor cables that pass between floors. It is normally used in a vertical shaft or space.
Router(s)	A router can be used to connect networks with similar protocols (802.5 token ring local area network [LANs]) or dissimilar Open System Interconnection (OSI) model protocols (802.5 token ring LANs and X.25 packet-switching networks). Routers are more sophisticated than bridges and can be used to prevent some of the speed mismatch, security and reliability problems that occur in large networks. An intermediate system between two or more networks capable of forwarding data packets at the network layer (layer 3).
Serial Data Transmission	Data transmission between computer devices using only a single circuit path. Whole bytes of information (8 bits) are sent in sequential pattern.
Serial Port(s)/Transmission	Normally a DB 9 pin connector located on the motherboard of a PC. A technique in which each bit of information is sent sequentially on a single channel.
Server(s)	Host Computer(s).
Sheath	A common term for the jacket over twisted pairs of multi pair cables.
Shield	The metallic layer that surrounds insulated conductors in shielded cable. The shield may be the metallic sheath of the cable or the metallic layer inside a non-metallic sheath.

Shielded Twisted Pair Cable (STP)	A cable comprising of one or more elements each of which is individually shielded. There may be an overall shield in which case the cable is referred to as a shielded twisted pair cable with an overall shield.
Simplex	A transmission means allowing only one direction of transmission.
Single-Mode	Optical Fibre with a small core diameter in which only single mode is capable of propagation. 8.3 micron is the common standard core size.
Sleeves	Short length of rigid metal pipe, approximately 4 in.(10.0cm) in diameter, located in riser telecommunication rooms that allows cables to pass from floor to floor when rooms are vertically aligned. Sleeves also provide for easy pulling of cable.
Slots	Opening in the floor of riser telecommunications closets that allow cables to pass through from floor to floor when rooms are vertically aligned. A slot accommodates more cable than an individual sleeve.
Splice	The physical joining of two or more copper wire or optical fibres.
Splice Closure	A container used to organise and protect splice trays.
Splitter	Another name for coupler. <i>See also Coupler.</i>
Splitting Ratio	The ratio of power emerging from multiple output ports of a coupler.
Straight-Tip (ST) Connector	A fibre optic connector.
Stranded Cable	A strong woven-copper-wire used to support cable in aerial distribution systems. The cable is lashed to the stranded cable during installation.
Structured Cabling	Cabling scheme which allows rapid reconfiguration for office moves through patching.
Surge	A sudden voltage rise and fall in an electrical circuit.
Telecommunication Closet/Room	An enclosed space for housing telecommunication equipment, cable terminations, and cross-connect cabling. The telecommunications closet is a recognised cross-connect point between the backbone and horizontal cabling subsystems.
Telecommunication Outlet	A connector where the horizontal cables terminate in the work area.
Thick Coax	The transmission medium used for Ethernet or IEEE 802.3 10Base5 LANs. It is a 50 Ohm thick coax cable (commonly referred to as the thick yellow cable).
Thin Coax	The transmission medium used for IEEE 802.3 10Base2 LANs (sometimes referred to as CheaperNet). It is a 50 Ohm thin coax cable.
TIA/EIA	North American Standards Organisation.

TP-PMD	Twisted Pair Physical medium Dependent. A twisted pair version of the FDDI standard that allows 100Mb/s transmission over Category 5 copper.
Transport Control Protocol/Internet Protocol (TCP/IP)	A common network layer and transport layer data networking protocol.
Transport Layer	Layer 4 of the OSI model. The transport layer provides for end-to-end data relaying services across any type of data network and is responsible for end-to-end reliability.
Twisted Pair(s)	Two insulated copper wires twisted together. The twists, or lays, are varied in length to reduce the potential for signal interference between pairs. In cables greater than 25-pairs, the twisted pairs are grouped and bound together in a common sheath. Twisted pair is the most common type of transmission media. Often referred to as balanced twisted pairs.
UL	Underwriters' Laboratories, Inc.
Uniformity	The variation of power level between the optical outputs of a splitter.
Unshielded Twisted Pair (UTP) Cable	Normal copper building cable, capable of high-speed data transmission.
Volt (V)	The standard unit of electromotive force or electrical pressure. One volt is the amount of pressure that will cause one ampere of current to flow through one ohm of resistance.
Watt (W)	A unit of power equal to one joule per second.
Wavelength	The physical distance of one electromagnetic wave cycle.
Wavelength Division Multiplexer (WDM)	A passive device that transmits signals at different wavelength through the same fibre.
Wide Area Network (WAN)	Any physical network topology that spans large geographic distances. WANs usually operate at lower speeds and have higher delays than local area networks (LANs).
Wireless LANs	Local area network that communicates using radio technology.
Wiring Closet	<i>See Telecommunication Closet/Room.</i>

