Netprom
THE FUTURE IS FAST

FIBER OPTIC SOLUTIONS

Netprom offer 2015/2016

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THE FUTURE IS FAST

Netprom

About us

Netprom offer high performance products with superior reliability.
Working with our high performance cables.

Netprom cooperetion with Optronics and FibreFab. Netprom is a leading professional Fiber Optic and Data connectivity solution supplier and exporter from UE. We focus on producing Fiber Optic Equipment, passive components and assemblies to the customer worldwide.

Workstation and testing devices that satisfy our customers' reguirement.

Netprom offers unmatched reliability for your mission critical systems, from the central office to the home.
Many fiber optic companies offer pieces of this solution. Netprom offers it all.

In the short time since Netprom was founded we have grown into a full service manufacturer of fiberoptic components, assemblies, PLC splitters, high fiber count cable terminations, Lgx style patch panels, pre-loaded adapter plates and much more.
We will assist you in any way we can, whether the needs are fiberoptic connectors, adapters, jumpers, pigtails, patch panels, pre-loaded LGX adapter plates, or consulting. Should you have any questions about Netprom or our products, please contact us.

We are a Polish producer of wide range of modern products for the market of telecommunications, industry, automatization and urban networks. We are one of the european leaders in distribution and production of the components used to build fiber optic networks and structural cabling systems.
Our solitions are being used for the construction of the modern IT systems with an emphasis on the fiber optic technologies for operators networks, metropolitan networks and last mile FTTH networks.
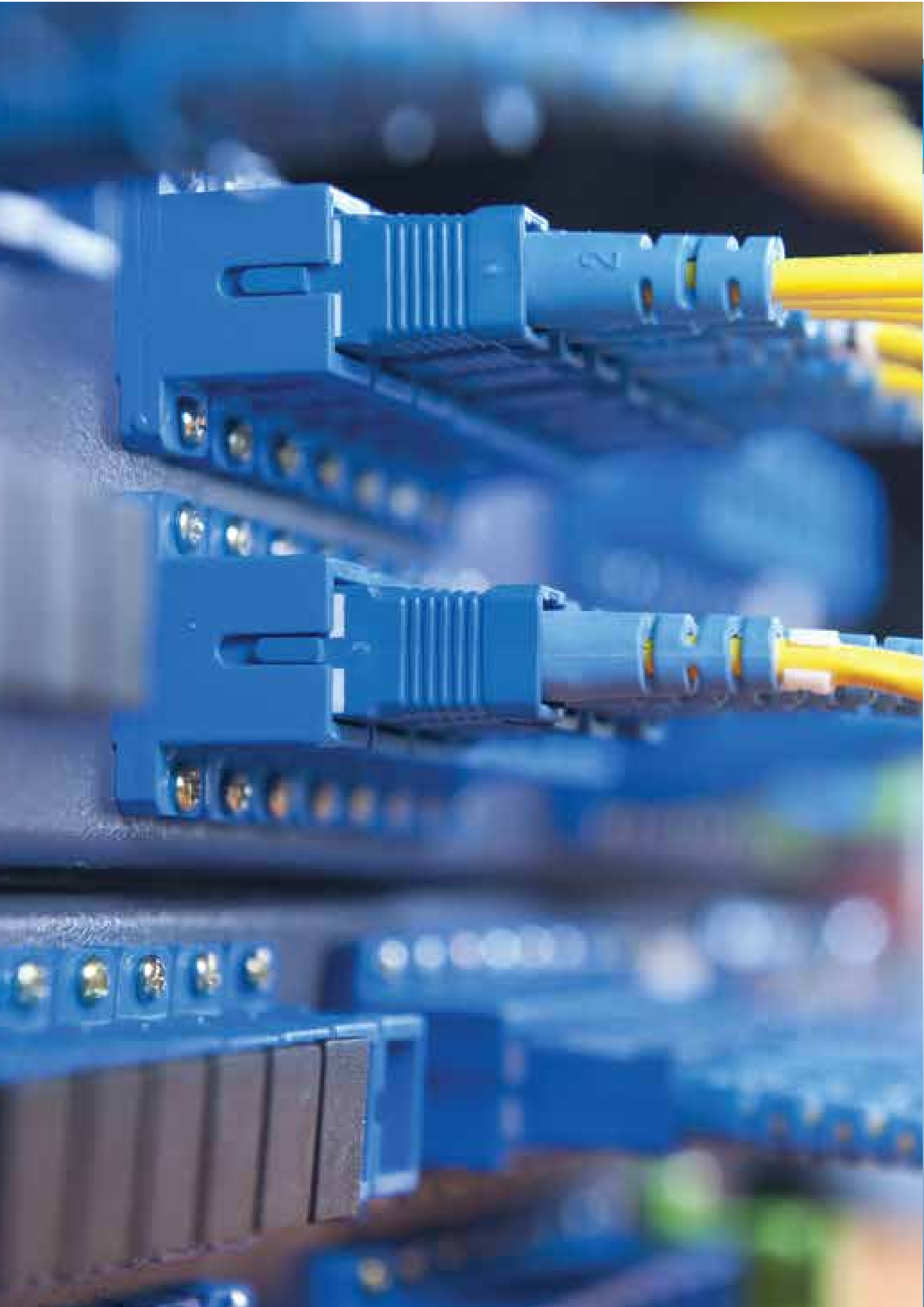Our company often marked out new directions in the industry especially by introducing new products connected with microcanalization and FTTx systems.
The Company's headquarters are located in Człuchów (Poland) alltogether with the Research & Developement Center and Logistic Center.
The Company's important part is export department, which gives us an opportunity to attend international projects as a supplier of competitive solutions or subcontractor of selected products. Thanks to that we gain experience and knowledge about the newest trends which appear all over the world. Currently our products are virtually being sold and used in European Union.

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Singlemode Pigtails

Connector Options

| LC | LC APC | SC | SC APC | ST | FC | FC APC | E2000 | E2000 APC |

Singlemode pigtails are used in telecom, datacom networks and also used for high speed metropolitan and access network. The singlemode pigtail buffer conforms to IEC, EIA TIA or Telcordia standards. The singlemode pigtails are terminated with premium low loss connectors which gives optimum optical performance.

Features & Specifications

>> Available in SC, ST, FC, LC, E2000 connector styles
>> Netprom product manufactured on 900 micron buffer fibre (nominal dia.)
>> Individual test sheet and unique product identification number for traceability
>> Low insertion loss (≤0.15dB) & high return loss (≥55dB)
>> Buffer available in up to 12 colours
>> Materials compliant to 2011/65/EU

Technical Specifications

TEST	METHOD	SPECIFICATION
Connector Type Standards	IEC 61574 series	-
Insertion Loss	IEC 61300-3-4	≤0.15dB
Singlemode Return Loss UPC	IEC 61300-3-6	≥55dB

ASSEMBLY SPECIFICATION	
Length of assembly	Tolerance
Less than 0.5m	-0/+0.10m
Between 0.5m and 5m	-0/+0.15m
Greater than 5m	-0/+0.20m

Pigtails and Patchcords

Connector Options

Multimode Pigtails

| LC | SC | ST | FC | E2000 |

Multimode pigtails are used to connect high speed networks like gigabit ethernet, fast ethernet and ethernet. The multimode pigtail buffer conforms to IEC, EIA TIA or Telcordia standards. The multimode pigtails are terminated with premium low loss connector which gives optimum optical performance.

Features & Specifications

>> Available in SC, ST, FC, LC, E2000 connector styles
>> Netprom product manufactured on 900 micron buffer (nominal dia.)
>> Low insertion loss (≤0.15dB)

>> Individual test sheet and unique product identification -number for traceability
>> -Buffer available in up to 12 colours
>> -Materials compliant to 2011/65/EU

Technical Specifications

TEST	METHOD	SPECIFICATION
Connector Type Standards	IEC 61574 series	-
Insertion Loss	IEC 61300-3-4	≤0.15dB

ASSEMBLY SPECIFICATION	
Length of assembly	Tolerance
Less than 0.5m	-0/+0.10m
Between 0.5m and 5m	-0/+0.15m
Greater than 5m	-0/+0.20m

Blister Pack Pigtails

We can now offer you a more convenient and cost effective way to purchase pigtails. You get our usual high quality pigtails but now with a reduction in the amount of packaging and paperwork, saving costly engineers' time unpacking onsite.

Features

>> *Blister packed pigtails include FC,LC,SC & ST variations*
>> *Easy strip*
>> *IEC and DIN colour codes available (IEC as Standard)*

Benefits

>> *Convenient space saving shipping & storage*
>> *Blister pack offers superior transport protection*
>> *Environmentally friendly, generating less waste from packaging and certification*

Technical Specifications

	Max
Insertion Loss	0.25dB
Return Loss (SM UPC)	≤55dB
Return Loss (SM APC)	≥65dB
Operating Temperature	-20°C to + 60°C
Intermateability	Compatible with all equivalent connectors as per IEC 61754

Part Number Generator

Controler	
FC	FC
FC/PC	FCA
SC	SC
SC/APC	SC/APC
ST	ST
LC	LC
LC/APC	LC/APC
E2000	E2000
E2000/APC	E2000/APC
MTRJ	MTRJ

Fiber type	
OS1/OS2	09
G657A1	A1
G657A2	A2
OM1	62
OM2	50
OM3	OM3
OM3RBS	OM3R
OM4	OM4
OM4RBS	OM4R

B

Cable Lenght	
x Metrs	xx

Option	
EASYSTRIP	
Tight uffered	TB

/Z
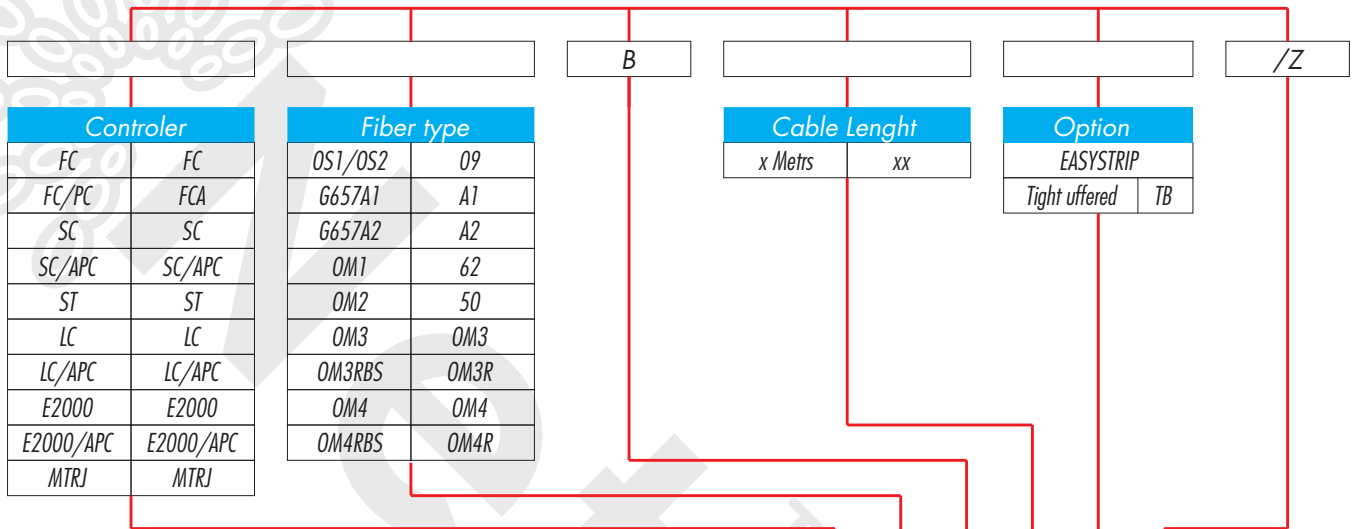
Example Part Number SC 62 B 1.5 TB /Z

Will configure an LC OM3 pigtail 10 metres long..

Note: MOQ may apply, please call us for details.
Other colour options available on request.
1Other lengths available upon request..

Optical Fibre Assemblies

OS1 / OS2

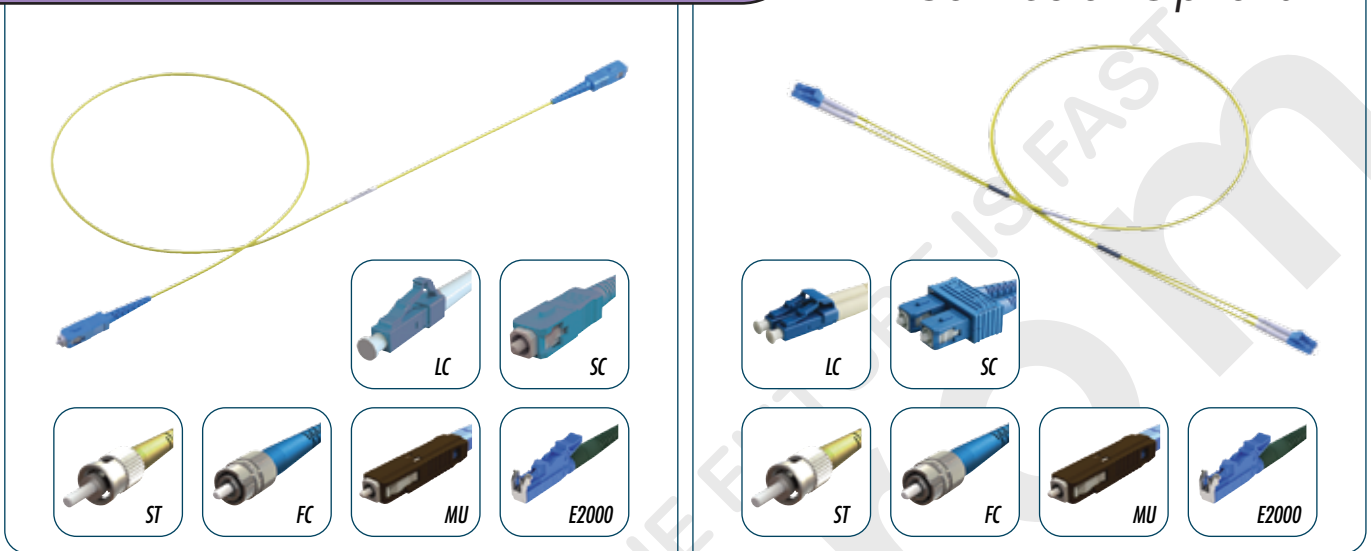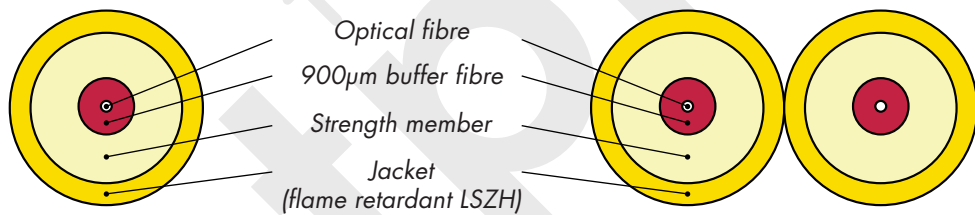### Connector Options

LC	SC
ST	FC
MU	E2000

Cable Construction

- Optical fibre
- 900µm buffer fibre
- Strength member
- Jacket (flame retardant LSZH)

Features & Specifications

>> Available in SC, ST, FC, LC, E2000 & MU connector styles
>> Netprom product manufactured on 2.0mm or 2.8mm (nominal dia.) LSZH cable
>> Individual test sheet and unique product identification number for traceability

>> Low insertion loss (≤0.25dB) & high return loss (≥55dB)
>> Yellow cable
>> Materials compliant to 2011/65/EU

Technical Specifications

TEST	METHOD	SPECIFICATION
Connector Type Standards	IEC 61574 series	-
Insertion Loss	IEC 61300-3-4	≤0.25dB
Flammability	IEC 60332-1	-
Singlemode Return Loss UPC	IEC 61300-3-6	≥55dB

ASSEMBLY SPECIFICATION	
Length of assembly	Tolerance
Less than 0.5m	-0/+0.10m
Between 0.5m and 5m	-0/+0.15m
Greater than 5m	-0/+0.20m

Connector Options

OS1/OS2 APC

LC	SC
ST	FC
MU	E2000

LC	SC
ST	FC
MU	E2000

Cable Construction

Optical fibre
900μm buffer fibre
Strength member
Jacket
(flame retardant LSZH)

Features & Specifications

>> Available in SC, ST, FC, LC, E2000 & MU connector styles
>> Standard product manufactured on 2.0mm or 2.8mm (nominal dia.) LSZH cable
>> Individual test sheet and unique product identification numb er for traceability)

>> Low insertion loss (≤0.25dB) & high return loss (≥65dB)
>> Yellow cable
>> Materials compliant to 2011/65/EU

Technical Specifications

TEST	METHOD	SPECIFICATION
Connector Type Standards	IEC 61574 series	-
Insertion Loss	IEC 61300-3-4	≤0.25dB
Flammability	IEC 60332-1	-
Singlemode Return Loss UPC	IEC 61300-3-6	≥65dB

ASSEMBLY SPECIFICATION	
Length of assembly	Tolerance
Less than 0.5m	-0/+0.10m
Between 0.5m and 5m	-0/+0.15m
Greater than 5m	-0/+0.20m

OM1 & OM2

Connector Options

LC SC

ST FC MU E2000

LC SC

ST FC MU E2000

Cable Construction

Optical fibre

900μm buffer fibre

Strength member

Jacket
(flame retardant LSZH)
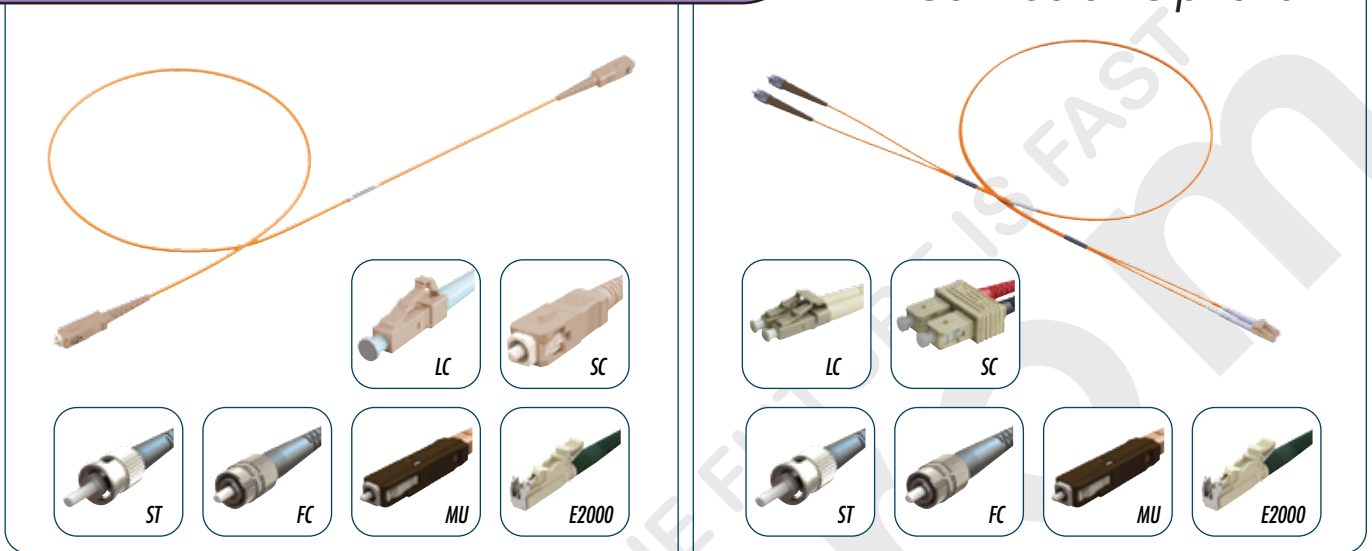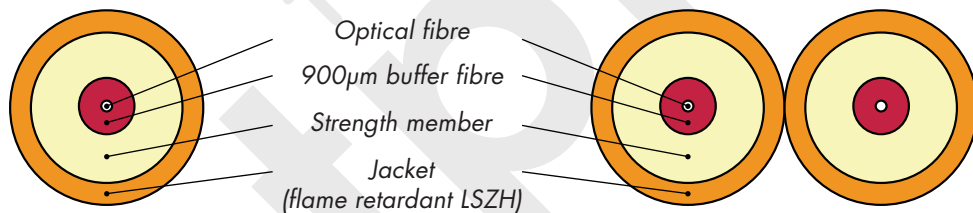
Features & Specifications

>> *Available in SC, ST, FC, LC, E2000 & MU connector styles*
>> *Standard product manufactured on 2.0mm or 2.8mm (nominal dia.) LSZH cable*
>> *Individual test sheet and unique product identification number for traceability*

>> *Low insertion loss (≤0.25dB)*
>> *Orange cable*
>> *Materials compliant to 2011/65/EU*

Technical Specifications

TEST	METHOD	SPECIFICATION
Connector Type Standards	IEC 61574 series	-
Insertion Loss	IEC 61300-3-4	≤0.25dB
Flammability	IEC 60332-1	-

ASSEMBLY SPECIFICATION	
Length of assembly	Tolerance
Less than 0.5m	-0/+0.10m
Between 0.5m and 5m	-0/+0.15m
Greater than 5m	-0/+0.20m

Pigtails and Patchcords

OM3

Connector Options

LC	SC
ST	FC

MU E2000

LC	SC
ST	FC

MU E2000

Cable Construction

Optical fibre
900µm buffer fibre
Strength member
Jacket
(flame retardant LSZH)

Features & Specifications

>> Available in SC, ST, FC, LC, E2000 & MU connector styles
>> Used in 10 Gigabit, Ethernet, Fast Ethernet and FDDI networks
>> IStandard product manufactured on 2.0mm or 2.8mm (nominal dia.) LSZH cable. LSZH zip cable also available in 2mm (nominal dia.) cable

>> LLow insertion loss (≤0.25dB)
>> Individual test sheet and unique product identification number for traceability
>> 850nm VCSEL based GbE (1000 base-SX) to support longer distance
>> Materials compliant to 2011/65/EU

Technical Specifications

TEST	METHOD	SPECIFICATION
Connector Type Standards	IEC 61574 series	-
Insertion Loss	IEC 61300-3-4	≤0.25dB
Flammability	IEC 60332-1	-

ASSEMBLY SPECIFICATION	
Length of assembly	Tolerance
Less than 0.5m	-0/+0.10m
Between 0.5m and 5m	-0/+0.15m
Greater than 5m	-0/+0.20m

OM4

Connector Options

LC	SC
ST	FC	MU	E2000

LC	SC
ST	FC	MU	E2000

Cable Construction

- Optical fibre
- 900µm buffer fibre
- Strength member
- Jacket (flame retardant LSZH)

Features & Specifications

>> Available in SC, ST, FC, LC, E2000 & MU connector styles
>> Used in 10 Gigabit, Ethernet, Fast Ethernet and FDDI networks
>> Standard product manufactured on 2.0mm or 2.8mm (nominal dia.) LSZH cable, also available in 2mm (nominal dia.) cable on request

>> Low insertion loss (≤0.25dB)
>> Individual test sheet and unique product identification number for traceability
>> 850nm VCSEL based GbE (1000 base-SX) to support longer distance
>> Materials compliant to 2011/65/EU

Technical Specifications

TEST	METHOD	SPECIFICATION
Connector Type Standards	IEC 61574 series	-
Insertion Loss	IEC 61300-3-4	≤0.25dB
Flammability	IEC 60332-1	-

ASSEMBLY SPECIFICATION	
Length of assembly	Tolerance
Less than 0.5m	-0/+0.10m
Between 0.5m and 5m	-0/+0.15m
Greater than 5m	-0/+0.20m

Part Number Generator

CONNECTOR END A[1]		CONNECTOR END B[1]		FIBRE TYPE		CABLE CONFIGURATION[2]		CABLE COLOUR[3]		CABLE LENGTH[4]	
FC	FC	FC	FC	OS1/OS2	09	Duplex	D	Yelow	YE	1m	1
FC/APC	FCA	FC/APC	FCA	OM1	62	Simplex	S	Orange	OR	2m	2
SC	SC	SC	SC	OM2	50	Flat Duplex	FD	Purple	PU	3m	3
SC/APC	SCA	SC/APC	SCA	OM3	OM3			Aqua	AQ	5m	5
ST	ST	ST	ST	OM4	OM4					10m	10
LC	LC	LC	LC							Xm	XX
LC/APC	LCA	LC/APC	LCA								
E2000	E2	E2000	E2								
E2000/APC	E2A	E2000/APC	E2A								
MTRJ	MTRJ	MTRJ	MTRJ								

Example Part Number FC FC 62 D OR 3 /Z

Will configure an OM1 FC to FC duplex patch cord in orange 3 metres long.

[1]Other connectors available upon request.
[2]mTRJ is available in MiniZip only.
[3]Other colour options available for singlemode cable.
[4]Other lengths available upon request.

Reduced Bend Sensitivity Patch Cords

Features

Netprom patch cords and pigtails are available in both singlemode and multimode classes based on reduced bend sensitivity (RBS) fibre cable.

RBS patch cords exhibit much lower optical power loss under bend conditions while remaining compatible with conventional cabling. RBS patch cords are made with solid trench assisted optical fibre that is designed to reduce optical loss when the cable is bent. RBS patch cords provide the same high quality, mechanical features and optical performance as our standard patch cords with the added capability of maintaining optical performance when bent or flexed.
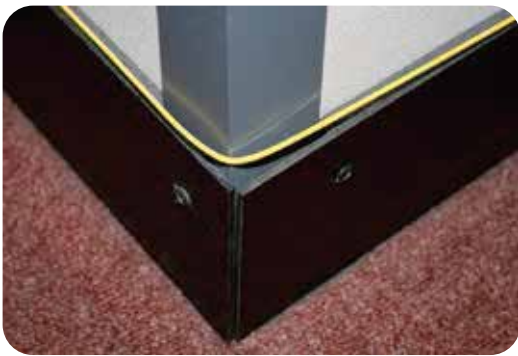
RBS patch cords are available for multimode (OM3 and OM4) and singlemode (OS2/ G.657A1 and G.657A2) networks.

Applications

RBS patch cords an
which low loss in tight radius routing is important:
>> When routing cable around corners and in tight spaces is required, for example in FTTH installations in existing buildings
>> FTTH cabling in POPs, MDU distribution points and subscriber connections
>> Data Centres where network uptime is critical. For example, OM4 RBS patch cords will continue to provide data service when pinched by a cabinet door, whereas service would be lost with conventional OM4 patch cords
>> Generally, when small radius installation is needed or the cabling may be subjected to occasional small radius events

FTTH
DATA CENTRE
INSIDE EQUIPMENT
HIGH UP-TIME
TIGHT ROUTING

30mm
Radius

15mm
Radius

7.5mm
Radius

Actual Size
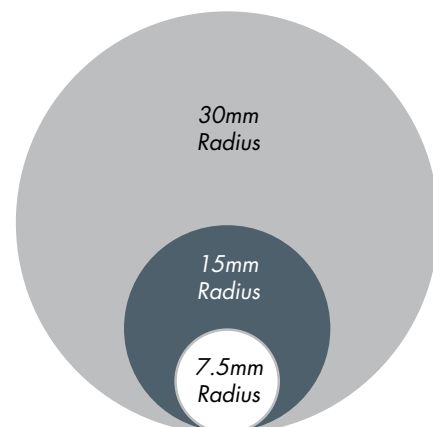
Termination Specification

General mechanical and optical specifications of RBS patch cords are as per corresponding standard products including IEC and TIA/EIA standards conformance.

FIBRE CLASS	FIBRE STANDARD	GUIDELINE RADIUS	BEND PERFORMANCE			
Standard Multimode and Singlemode	-	30mm	-			
REDUCED BEND SENSITIVITY MULTIMODE			RADIUS	TURNS	LOSS AT 850 NM	LOSS AT 1300 NM
OM3 RBS	OM3	10mm	15mm	2	0.1dB	0.3dB
OM4 RBS	OM4		7.5mm	2	0.2dB	0.4dB
REDUCED BEND SENSITIVITY SINGLE MODE			LOSS AT 1550 NM			
			15MM RADIUS 10 TURNS	10MM RADIUS 1 TURN	7.5MM RADIUS 1 TURN	
G657A1		15mm	0.25dB	0.75dB	-	
G657A2		7.5mm	0.03dB	0.1dB	0.5dB	

Straight fibre as reference

G.652.D > 15.10dB

RBS > 0.21dB

CONNECTOR END A		CONNECTOR END B		FIBRE TYPE		CABLE CONFIGURATION		CABLE DIAMETER[1]		CABLE COLOUR		CABLE LENGTH[2]	
FC	FC	FC	FC	G657A1	7A1	Duplex	D	1.6mm	1.6	Yelow	YE	1m	1
FC/APC	FCA	FC/APC	FCA	G658A2	7A2	Simplex	S	2.0mm	2.0	Purple	PU	2m	2
SC	SC	SC	SC	OM3RBS	RM3	Flat Duplex	FD	2.8mm	2.8	Aqua	AQ	3m	3
SC/APC	SCA	SC/APC	SCA	OM4RBS	RM4					Erika Violet	EV	5m	5
ST	ST	ST	ST									10m	10
LC	LC	LC	LC									Xm	XX
LC/APC	LCA	LC/APC	LCA										
E2000	E2	E2000	E2										
E2000/APC	E2A	E2000/APC	E2A										

Example Part Number FC FC RM3 D 1.6 YE 10 /Z

Will configure an FC to FC 1.6mm Duplex OM3 reduced bend cable in yellow at 10 metres.

[1] 1.6mm only available as singlemode.
[2] Other lengths available upon request.

Optical Fibre Assemblies

Premium Patch Cords

Netprom Premium range patch cords are suitable for low loss telecom, datacom, data centre and some critical applications. The patch cords provide flexible interconnection to active equipment, passive optical devices and cross-connects. The patch cords are terminated with

Premium range physical contact (singlemode & multimode) and angled physical contact (singlemode) zirconia ferrule connectors which are manufactured with precision factory mounting and polishing techniques which helps assure high transmission quality.

Features

>> Conform to IEC, EIA-TIA, or Telcordia performance requirements
>> Available in different fibre types
>> Available with different connector types
>> Available in standard and custom lengths
>> REACH / SvHC compliant
>> Materials compliant to 2011/65/EU

Applications

>> Data centre
>> Telecommunication networks
>> High bandwidth 40G & 100G networks
>> CATV
>> LAN and WAN
>> FTTX

OPTICAL PERFORMANCE	SINGLEMODE	MULTIMODE	CONFORMANCE
IL MAX/ Master (Acceptance)	0.15dB	0.15dB	IEC 61300-3-4
IL/Random (97%)	0.30dB	0.25dB	IEC 61300-3-34
Ave/Master*	0.12dB	0.08dB	IEC 61300-3-4
Ave/Random*	0.12dB	0.10dB	IEC 61300-3-34
Return Loss	55/65dB	-	IEC 61300-3-6
MECHANICAL PROPERTIES	CRITERIA*		CONFORMANCE
Mechanical endurance	500 matings		IEC 61300-2-2
Vibration	10-55 Hz, 0.75 amplitude		IEC 61300-2-1
Drop	Drop height 1m, 5 drops		IEC 61300-2-12
Cable retention	Magnitude 70N		IEC 61300-2-4
Cable torsion	1.5kg - 2.5kg for 2mm - 3mm cable diameter		IEC 61300-2-5

* The change in attenuation for all the above listed criteria shall be a maximum of 0.20dB

Pigtails and Patchcords

Termination Specification

CONNECTOR TYPE	CONFORMANCE	SM	MM	SM DUPLEX	MM DUPLEX
SC connector	IEC 61754-4	SM PC- Blue APC-Green	MM PC- Beige	SM PC- Blue APC-Green with clips	MM PC- Beige with clips Boot -Red & Black
LC connector	IEC 61754-20	SM PC- Blue APC-Green Boot-White	MM PC- Beige Boot-White	SM PC- Blue APC-Green with clips Boot-White	MM PC- Beige with clips Boot-White
ST connector	IEC 61754-2	SM PC- Yellow boot	MM PC- Black boot	SM PC- Yellow boot	MM PC- Red & Black boot
FC connector	IEC 61754-13	SM PC- Blue boot APC-Green boot	MM PC- Black boot	SM PC- Blue boot APC-Green boot	MM PC- Black boot

IMPORTANT:
Please note that the LC 2mm connectors have heatshrink that acts as cable retention. Clips will be provided for channel identification of duplex FC and ST patch cords.
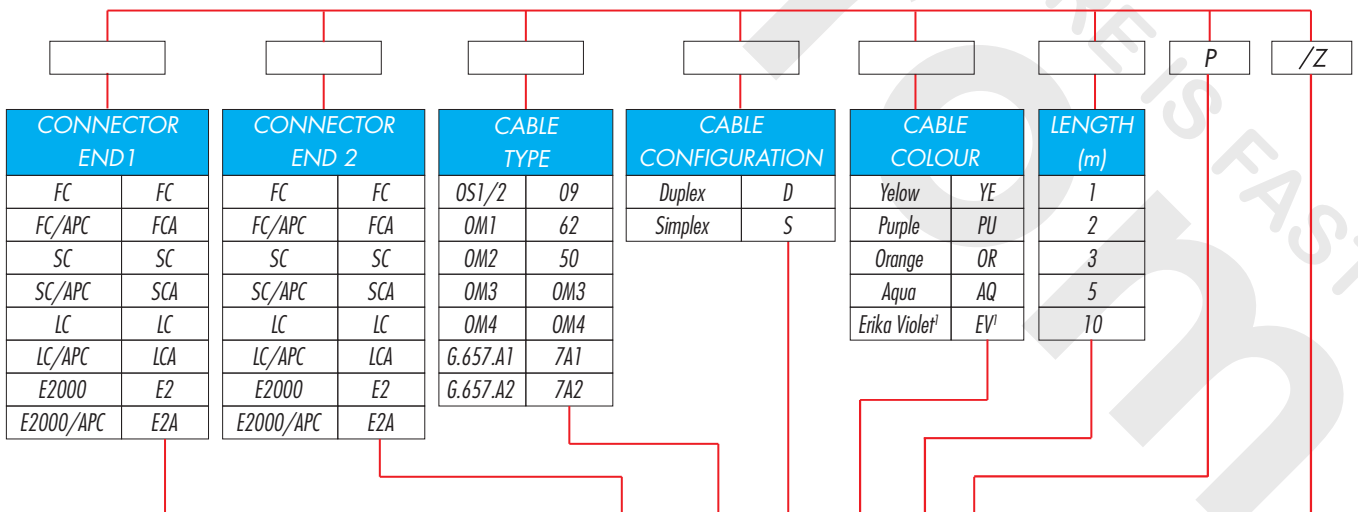
Cable Specification

CHARACTERISTICS	UNITS	SIMPLEX	DUPLEX
Cable Material		LSZH or PVC	LSZH or PVC
Strength Member		Aramid	Aramid
Crush	N	1000	1000
Operating Temperature	°C	-20 to +60	-20 to +60
Secondary Buffer Diameter (2.0mm and 2.8mm)	µm	900±50	900±50
Secondary Buffer Diameter (1.6mm)	µm	600±50	600±50
Minimum Bending Radius	mm	10D (installed) 20D (loaded)	10D (installed) 20D (loaded)

IMPORTANT:
The patch cords are available in standard length of 1m, 2m, 3m, 5m, and 10m. For other lengths please contact Optronics for the actual lead times.

Part Number Generator

CONNECTOR END1		CONNECTOR END 2		CABLE TYPE		CABLE CONFIGURATION		CABLE COLOUR		LENGTH (m)
FC	FC	FC	FC	OS1/2	09	Duplex	D	Yelow	YE	1
FC/APC	FCA	FC/APC	FCA	OM1	62	Simplex	S	Purple	PU	2
SC	SC	SC	SC	OM2	50			Orange	OR	3
SC/APC	SCA	SC/APC	SCA	OM3	OM3			Aqua	AQ	5
LC	LC	LC	LC	OM4	OM4			Erika Violet[1]	EV[1]	10
LC/APC	LCA	LC/APC	LCA	G.657.A1	7A1					
E2000	E2	E2000	E2	G.657.A2	7A2					
E2000/APC	E2A	E2000/APC	E2A							

... P /Z

Example Part Number SC SC OM4 D AQ 10 P /Z

Will configure an OM4 SC to SC duplex 10 metre premium patch cord in aqua.

[1]OM4 Only

Master Test Leads

The Netprom range of Master Test Leads is suitable for general optical performance test applications. The test leads are terminated with the highest quality physical contact (singlemode) and angled physical contact (singlemode) zirconia ferrule connectors. The connectors are manufactured with precision mounting and polishing techniques which help assure high transmission quality.

Features

>> Conform to IEC, EIA-TIA, and Telcordia performance requirements
>> Supplied with ultra tight geometry singlemode and multimode optical fibre
>> Available with different connector types
>> Available in standard and custom lengths
>> Precision glass geometry
>> Concentricity, end face geometry, IL, RL certificate
>> REACH / SvHC compliant
>> Materials compliant to 2011/65/EU

Applications

>> Testing labs
>> Critical telecom and data centre application
>> Instrumentation

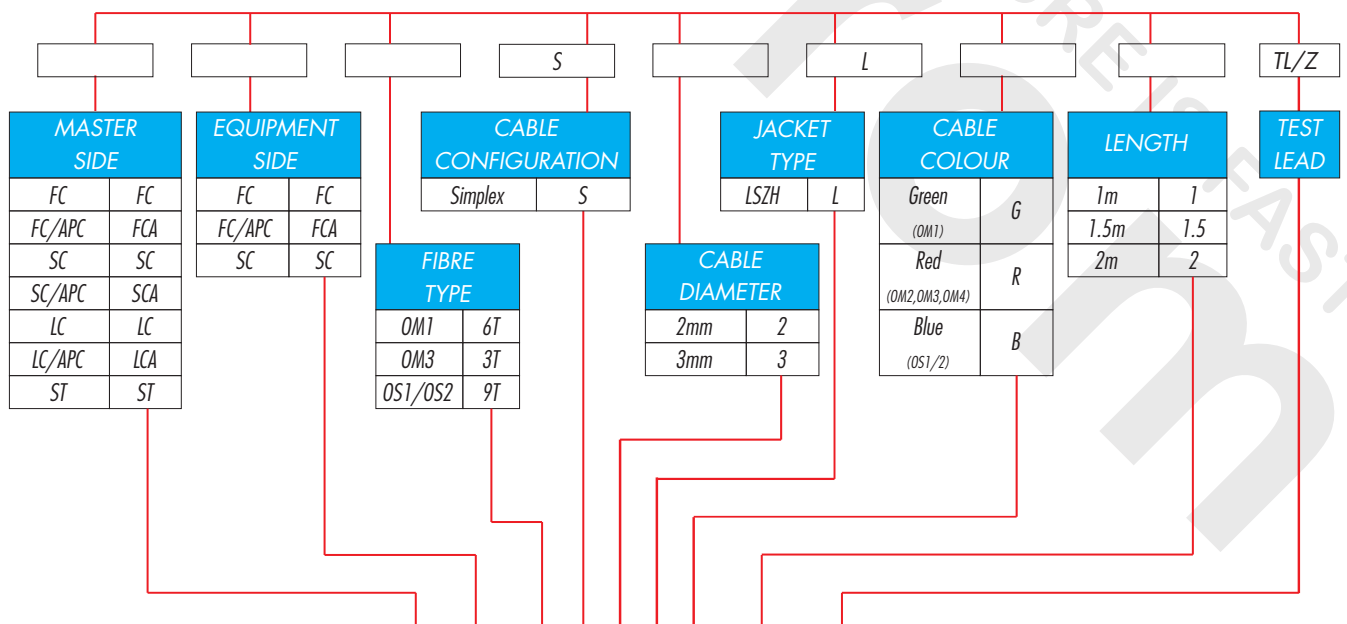| OPTICAL PERFORMANCE	SINGLEMODE	MULTIMODE	CONFORMANCE
IL MAX/ Master (Acceptance)	0.10dB	0.15dB	IEC 61300-3-4
IL/Random (97%)	0.20dB	0.25dB	IEC 61300-3-34
Ave/Master*	0.08dB	0.08dB	IEC 61300-3-4
Ave/Random*	0.08dB	0.10dB	IEC 61300-3-34
Return Loss	55/65dB	-	IEC 61300-3-6
MECHANICAL PROPERTIES	CRITERIA*		CONFORMANCE
Mechanical endurance	500 matings		IEC 61300-2-2
Vibration	10-55 Hz, 0.75 amplitude		IEC 61300-2-1
Drop	Drop height 1m, 5 drops		IEC 61300-2-12
Cable retention	Magnitude 70N		IEC 61300-2-4
Cable torsion	1.5kg - 2.5kg for 2mm - 3mm cable diameter		IEC 61300-2-5

Pigtails and Patchcords

Cable Specification

CHARACTERISTICS	UNITS	SIMPLEX
Cable Material		LSZH
Strength Member		Aramid
Crush	N	1000
Operating Temperature	°C	-20 to 60
Colour		SM – Blue OM1 - Green OM3 - Red

Fibre Specification

CHARACTERISTICS	UNITS	SINGLEMODE
Cladding Diameter	µm	125±0.4
Core/Cladding Concentricity Error	µm	≤0.3
Cladding Non Circularity	%	≤0.3
Mode Field Diameter (mfd) @ 1310nm	µm	9.0±0.4
Mode Field Diameter (mfd) @ 1550nm	µm	10.1±0.5

CHARACTERISTICS	UNITS	MULTIMODE
Cladding Diameter	µm	125±1
Core Diameter	µm	50±1
Core/Cladding Concentricity Error	µm	≤ 1.5
Cladding Non Circularity	%	≤ 1.0
Numerical Aperture		0.2±0.015

Part Number Generator

MASTER SIDE		EQUIPMENT SIDE		CABLE CONFIGURATION		JACKET TYPE		CABLE COLOUR		LENGTH		TEST LEAD
FC	FC	FC	FC	Simplex	S	LSZH	L	Green (OM1)	G	1m	1	
FC/APC	FCA	FC/APC	FCA					Red (OM2,OM3,OM4)	R	1.5m	1.5	
SC	SC	SC	SC					Blue (OS1/2)	B	2m	2	
SC/APC	SCA											
LC	LC											
LC/APC	LCA											
ST	ST											

FIBRE TYPE	
OM1	6T
OM3	3T
OS1/OS2	9T

CABLE DIAMETER	
2mm	2
3mm	3

Example Part Number FC FC 6T S 2 L G 1.5 TL/Z

Will configure a 1.5 metre, FC to FC, OM1 simplex, LSZH test lead with a green jacket.

High Performance Patch Cords (Typical 0.08dB IL)

Netprom High Performance singlemode Patch cords are a range of "best in class" patch cords employing highest grade components, manufacturing processes and test methods that offer excellent performance for demanding telecommunications and data centre applications. High Performance Patch cords are used were low loss budgets are essential and may be considered for splice replacement.

Features

>> Conform to IEC, EIA-TIA, or Telcordia performance requirements
>> Grade A singlemode connector class applied
>> Special high accuracy G.652D photonics fibre
>> End face geometry result data included
>> REACH / SvHC compliant
>> Materials compliant to 2011/65/EU

Applications

>> Data centre
>> Telecommunication networks
>> High bandwidth 40G & 100G networks
>> CATV
>> LAN and WAN
>> FTTX
>> Broadband network

Connector Specification

OPTICAL PERFORMANCE	SINGLEMODE	CONFORMANCE
IL MAX/ Master (Acceptance)	0.10dB	IEC 61300-3-4
IL/Random (97%)	0.20dB	IEC 61300-3-34
Ave/Master*	0.08dB	IEC 61300-3-4
Ave/Random*	0.08dB	IEC 61300-3-34
Return Loss	55/65dB	IEC 61300-3-6
MECHANICAL PROPERTIES	CRITERIA*	CONFORMANCE
Mechanical endurance	500 matings	IEC 61300-2-2
Vibration	10-55 Hz, 0.75 amplitude	IEC 61300-2-1
Drop	Drop height 1m, 5 drops	IEC 61300-2-12
Cable retention	Magnitude 70N	IEC 61300-2-4
Cable torsion	1.5kg - 2.5kg for 2mm - 3mm cable diameter	IEC 61300-2-5

* The change in attenuation for all the above listed criteria shall be a maximum of 0.10dB
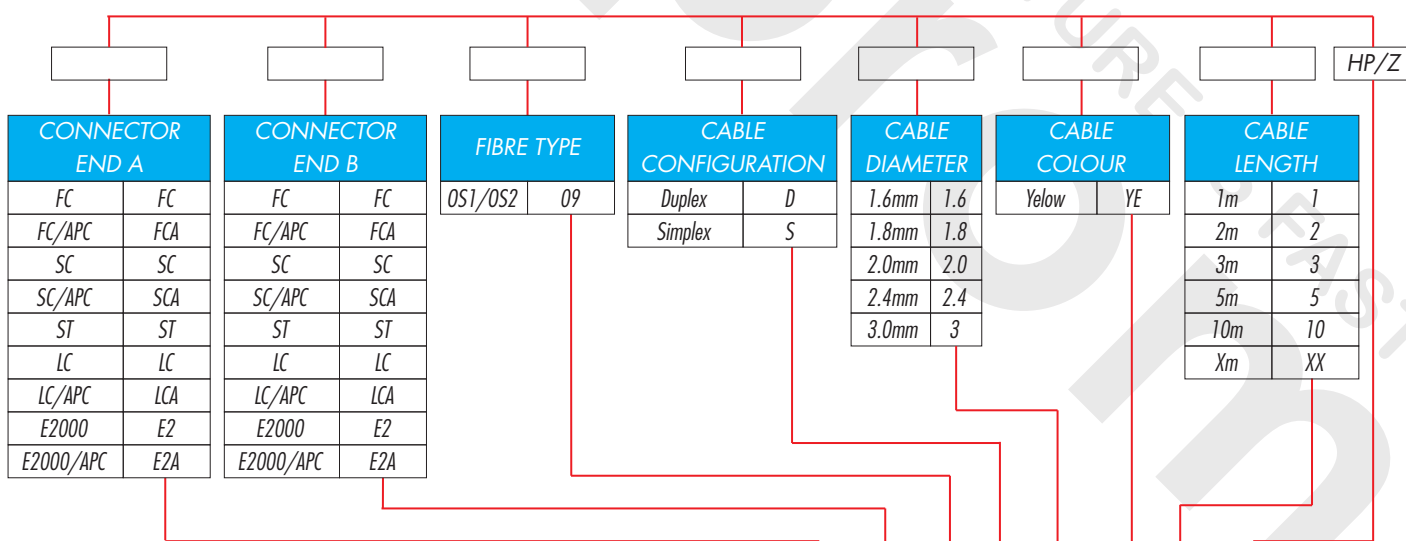
Pigtails and Patchcords

Cable Specification

CHARACTERISTICS	UNITS	SIMPLEX
Cable Material		LSZH
Strength Member		Aramid
Crush	N	1000
Operating Temperature	°C	-20 to 60
Secondary Buffer Diameter (2.0mm and 2.8mm)	µm	900±50
Secondary Buffer Diameter (1.6mm and 1.8mm)	µm	600±50
Colour		SM – Yellow

Fibre Specification

CHARACTERISTICS	UNITS	SINGLEMODE
Cladding Diameter	µm	125±0.4
Core/Cladding Concentricity Error	µm	≤0.3
Cladding Non Circularity	%	≤0.7
Polarization Mode Dispersion (PMD)	$Ps/(km)^{1/2}$	≤0.06
Mode Field Diameter (mfd) @ 1310nm	µm	9.0±0.4
Mode Field Diameter (mfd) @ 1550nm	µm	10.1±0.5

Part Number Generator

CONNECTOR END A		CONNECTOR END B		FIBRE TYPE		CABLE CONFIGURATION		CABLE DIAMETER		CABLE COLOUR		CABLE LENGTH	
FC	FC	FC	FC	OS1/OS2	09	Duplex	D	1.6mm	1.6	Yelow	YE	1m	1
FC/APC	FCA	FC/APC	FCA			Simplex	S	1.8mm	1.8			2m	2
SC	SC	SC	SC					2.0mm	2.0			3m	3
SC/APC	SCA	SC/APC	SCA					2.4mm	2.4			5m	5
ST	ST	ST	ST					3.0mm	3			10m	10
LC	LC	LC	LC									Xm	XX
LC/APC	LCA	LC/APC	LCA										
E2000	E2	E2000	E2										
E2000/APC	E2A	E2000/APC	E2A										

HP/Z

Example Part Number FC FC 09 D 1.6 YE 5 HP/Z

Will configure a 5m FC to FC duplex OS1 high performance patch cord

Armoured Patch Cords

Netprom armoured patch cords are used in customer premises, central offices and in harsh environments. The patch cords provide flexible interconnection to active equipment, passive optical devices and cross-connects. Armoured patch cords are constructed with an helical stainless steel tape over a buffered fibre surrounded by a layer of aramid and stainless steel mesh with an outer jacket. Netprom patch cords are terminated with our standard range of connectors, all quality tested to meet Netprom and international standards.

Features

>> SC, LC, ST and FC connectors
>> Available in low smoke zero halogen (LSZH) jacket
>> Conforms to IEC, EIA-TIA or Telcordia performance requirements
>> Available in different fibre types
>> Available in standard and custom lengths
>> REACH / SvHC compliant
>> Materials compliant to 2011/65/EU

Applications

>> Telecommunication networks
>> CATV
>> LAN and WAN
>> FTTX
>> Broadband network
>> Military application

Fibre Specification

CHARACTERISTICS	
Attenuation (dB/km) Singlemode	0.38@1310nm / 0.25 @1550nm
Chromatic Dispersion (ps/nm x km) Singlemode	3.0 @ 1310nm / 18.0 @1550nm
Attenuation (dB/km) Multimode	2.8@850nm / 0.8 @1300nm

Cable Specification

CHARACTERISTICS	SIMPLEX	DUPLEX
Cable Material	LSZH	LSZH
Strength Member	Aramid	Aramid
Crush (N) short term	3000	3000
Crush (N) long term	200	200
Operating Temperature (°C)	-20 to 60	-20 to 60
Fire Specification	IEC 60332-1	IEC 60332-1

Pigtails and Patchcords

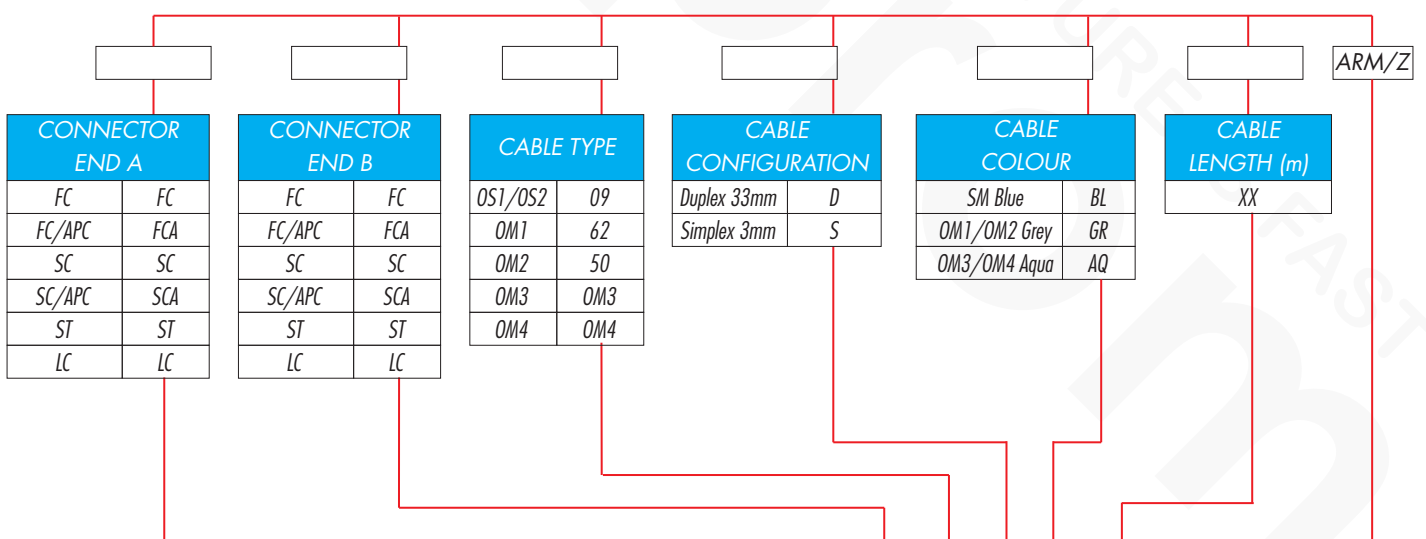### Simplex Patch cord Armoured

- Outer Jacket
- Kevlar
- Tight Buffer Fibre
- Helical Metal Tape
- Metal Braid Mesh

Outer Jacket · Metal Braid Mesh · Kevlar · Helical Metal Tape · Tight Buffer Fibre

Duplex Patch cord Armoured

- Outer Jacket
- Kevlar
- Tight Buffer Fibre
- Helical Metal Tape
- Metal Braid Mesh
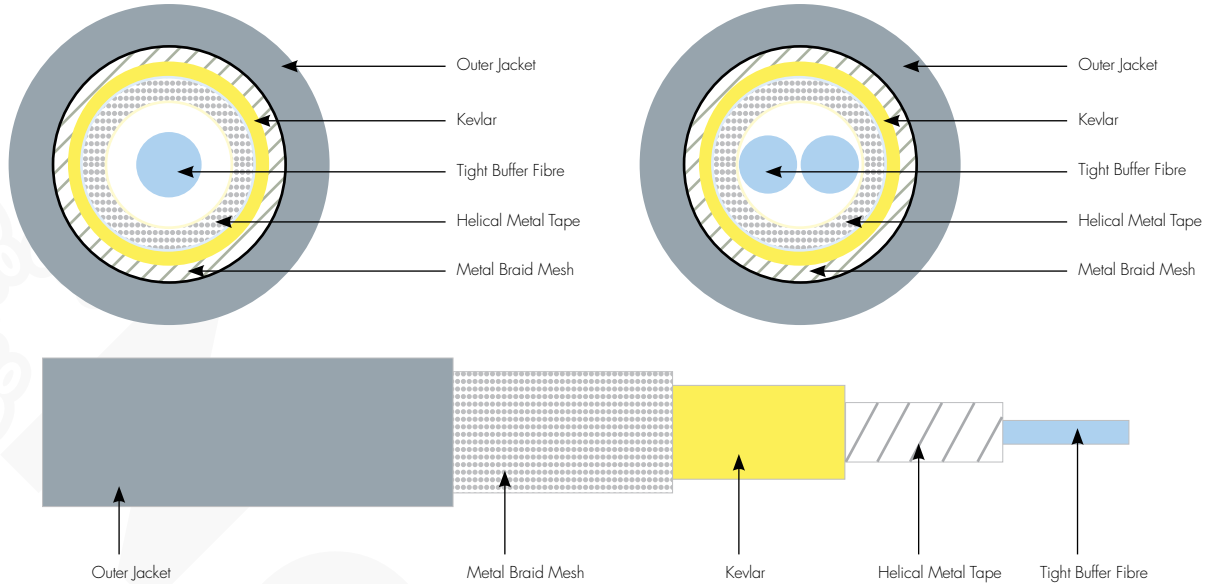
Connector Performance

OPTICAL PERFORMANCE	SINGLEMODE	MULTIMODE	CONFORMANCE
IL Max/Master (Acceptance)	0.3dB	0.3dB	IEC 61300-3-4
Ave/Master*	0.18dB	0.2dB	IEC 61300-3-4
Ave/Random*	0.18dB	-	IEC 61300-3-34
Return Loss Singlemode UPC/APC	50/60 dB	-	IEC 61300-3-6

* UPC/APC

Part Number Generator

CONNECTOR END A		CONNECTOR END B		CABLE TYPE		CABLE CONFIGURATION		CABLE COLOUR		CABLE LENGTH (m)	ARM/Z
FC	FC	FC	FC	OS1/OS2	09	Duplex 33mm	D	SM Blue	BL	XX	
FC/APC	FCA	FC/APC	FCA	OM1	62	Simplex 3mm	S	OM1/OM2 Grey	GR		
SC	SC	SC	SC	OM2	50			OM3/OM4 Aqua	AQ		
SC/APC	SCA	SC/APC	SCA	OM3	OM3						
ST	ST	ST	ST	OM4	OM4						
LC	LC	LC	LC								

Example Part Number FC FC 09 D BL 10 ARM/Z

Will configure a 10 metre, FC to FC, OS1 duplex armoured patch cor

Mode Conditioning Patch Cords

Multimode optical fibre links, that use laser based transmitters, may be limited in bandwidth to values less than half those of the over-filled launch bandwidth. Mode conditioning patch cords are designed to allow the use of laser transmitters in 62.5/125 (OM1) or 50/125 (OM2) multimode fibre optic cabling systems.

These assemblies allow long wavelength 1300nm signals to be transmitted, over good quality fibre, at distances of up to 550m. The Netprom mode conditioning cable assembly, improves performance by moving the singlemode launch to an offset position, increasing the mode fill and reducing DMD.

Connectors available

>> Types: FC, FC/APC, ST, SC, SC/APC, LC, MTRJ, MU
>> Length: 2m ± 10mm (Other lengths available to order)
>> Each patch cord is individually packaged and identified for traceability
>> A test certificate is supplied for each assembly

Technical Specifications

DESCRIPTION	MULTIMODE	
	62.5/125	50/125
Operating Wavelength	1300nm	
Maximum Insertion Loss:	0.5dB	
Coupled Power Ratio (CPR):	28 to 40dB	12 to 20dB
Back Reflection:	S/M Channel:	-30dB
	M/M Channel:	-20dB
Connector Finish	PC or APC	
Sheath Colour	Orange (yellow for SM leg)	

Mode Conditioning Principle

Multimode Optical Fibre

Fibre Distribution

Mode Conditioning Patch cord

Gigabit Hub (VCSEL)

Gigabit Hub (VCSEL)

Switch VCSEL Gigabit

Fibre Distribution Panel

RX

MultiMode Cable

TX

Singlemode Cable

MultiMode Cable
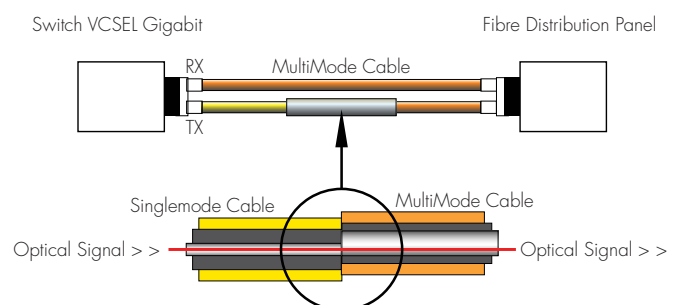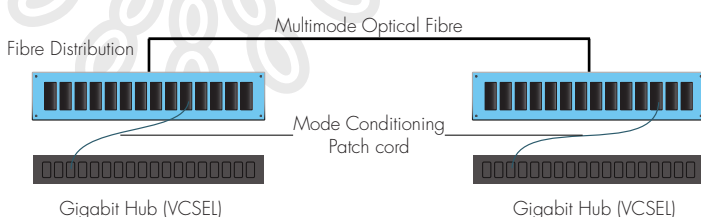
Optical Signal > >

Optical Signal > >

Attenuated Patch Cords
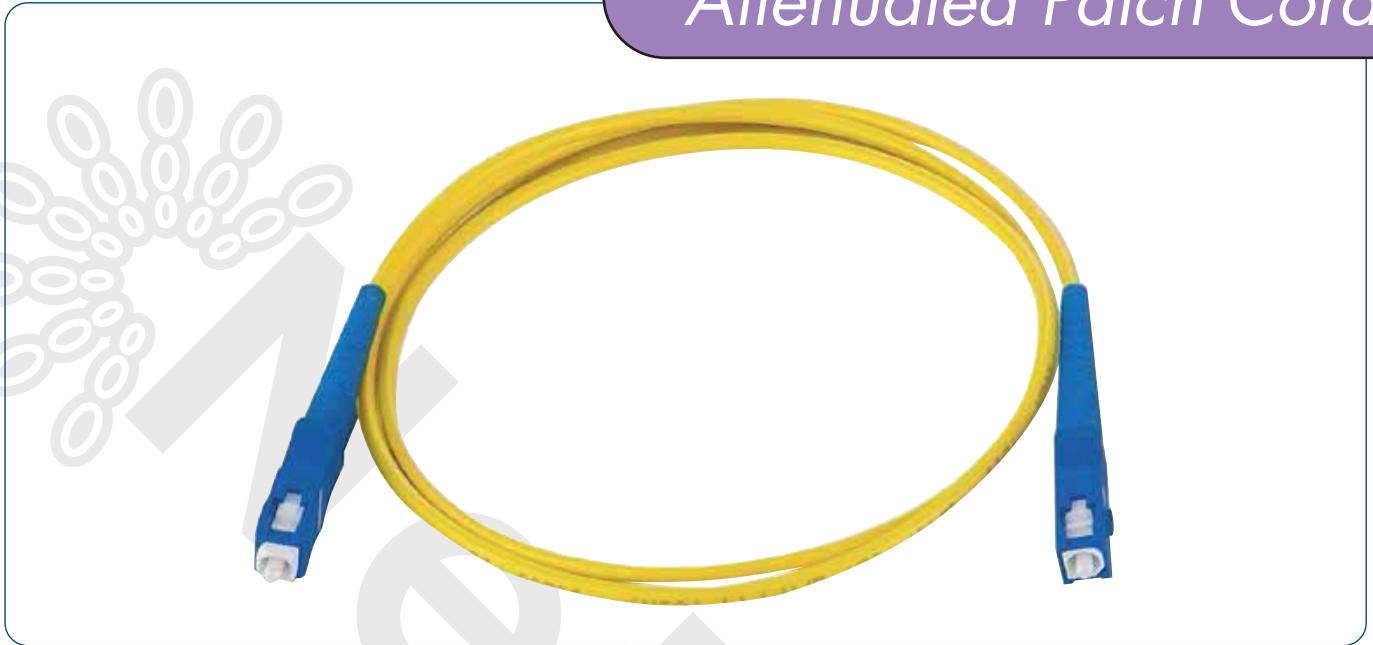
Netprom attenuated patch cords are used to attenuate the optical signal in a link. Attenuated patch cords can be installed in place of conventional patch cords to provide a constant level of attenuation with a return loss of ≥50dB.
The attenuated patch cord can be used to replace the conventional cable assembly and attenuator combination. It is a compact, multi- purpose, passive device designed to operate at wavelengths of 1310 and 1550nm.
Attenuated patch cords can be provided with LC, SC, ST and FC connector styles as per customer requirements.

Features

>> Provides the functions of attenuator and cable assembly simultaneously
>> Low back reflection
>> 100% insertion loss testing
>> Connector varieties available
>> Conforms to the requirements of EIA/TIA standards
>> Inexpensive and compact

Application

>> Telecommunication networks
>> CATV
>> LAN and WAN
>> Attenuation values available
>> 01= 1dB, 02= 2dB, 03= 3dB, 04= 4dB, 05= 5dB
>> 06= 6dB, 07= 7dB, 08= 8dB, 09= 9dB, 10= 10dB
>> 15= 15dB, 20= 20dB

Telecom Patch Cords

Telecom patch cords are designed for low loss telecom applications.
Our patch cords provide flexible interconnection to active equipment, passive optical devices and cross-connects. They are terminated with premium grade zirconia ferrule connectors which help assure high transmission quality and low optical power loss.

Features

>> Enhanced optical performance to meet tight Telecom power budgets
>> New flexible boot allows connection in compact spaces
>> Standard LC and SC connector types
>> Standard and bend insensitive Singlemode Fibre types, G652D, G657 A1, G657 A2
>> Cable available with IEC 60332-3-24 fire performance
>> Available in standard and custom lengths
>> IEC, EIA/TIA and Telecordia compliant
>> RoHS, REACH and SvHC compliant

Applications

>> Telecom
>> High Bandwidth Ethernet and Fibre Channel
>> Storage Area Networks (SANs)

Technical Drawing

Cable Specification

CHARACTERISTICS	
Cable Material	LSZH*
Strength Member	Aramid
Crush (N)	1000
Operating Temperature (°C)	-20 to 60
Fire Specification	IEC 60332-1
Secondary Buffer Diameter (2.0mm) μm	900±50
Secondary Buffer Diameter (1.6mm and 1.8mm)	600±50
Minimum Bend Radius (mm)	10D (installed) 20D (loaded)

Connector Specification

OPTICAL PERFORMANCE	SINGLEMODE	CONFORMANCE
IL Max/Master (Acceptance)	0.15 dB	IEC 61300-3-4
Max IL/Random	0.30 dB	IEC 61300-3-34
Ave/Master	0.12 dB	IEC 61300-3-4
Ave/Random	0.12 dB	IEC 61300-3-34
Return Loss UPC/APC	55/65 dB	IEC 61300-3-6

MECHANICAL PROPERTIES	VALUE	CONFORMANCE
Mechanical endurance	500 matings	IEC 61300-2-2
Vibration	10-55 Hz, 0.75 amplitude	IEC 61300-2-1
Drop	5 drops at 1m	IEC 61300-2-12
Cable retention	50N	IEC 61300-2-4
Cable torsion	1.5kg-2.5kg for 2mm-3mm cable diameter	IEC 61300-2-5

CONNECTOR TYPE	CONFORMANCE	SINGLEMODE	SINGLEMODE DUPLEX
SC Connector	IEC 61754-4	SM PC – Blue, Blue Boots APC – Green, Green Boots	SM PC – Blue, Blue Boots APC – Green, Green Boots
LC Connector	IEC 61754-20	SM PC – Blue, White Boots APC – Green, White Boots	SM PC – Blue, White Boots APC – Green, White Boots

Part Number Generator

CONNECTOR END B		CONNECTOR END B		CABLE TYPE		CABLE CONFIGURATION		CABLE COLOUR		CABLE DIAMETER		CABLE LENGTH	
LC	LC	LC	LC	OS2	09	Duplex LSZH	D	Yelow	YE	1.6mm	1.6MM	1m	1
LCAPC	LCA	LCAPC	LCA	G.657.A1	7A1	Simplex LSZH	S			1.8mm	1.8MM	2m	2
LC Short BooT	LCS	LC Short BooT	LCS	G657.A2	7A2	Duplex LSZH-3	DL			2.0mm	2.0MM	3m	3
SC	SC	SC	SC			Simplex LSZH-3	SL					5m	5
SC APC	SCA	SC APC	SCA									10m	10
												Xm	XX

ARM/Z
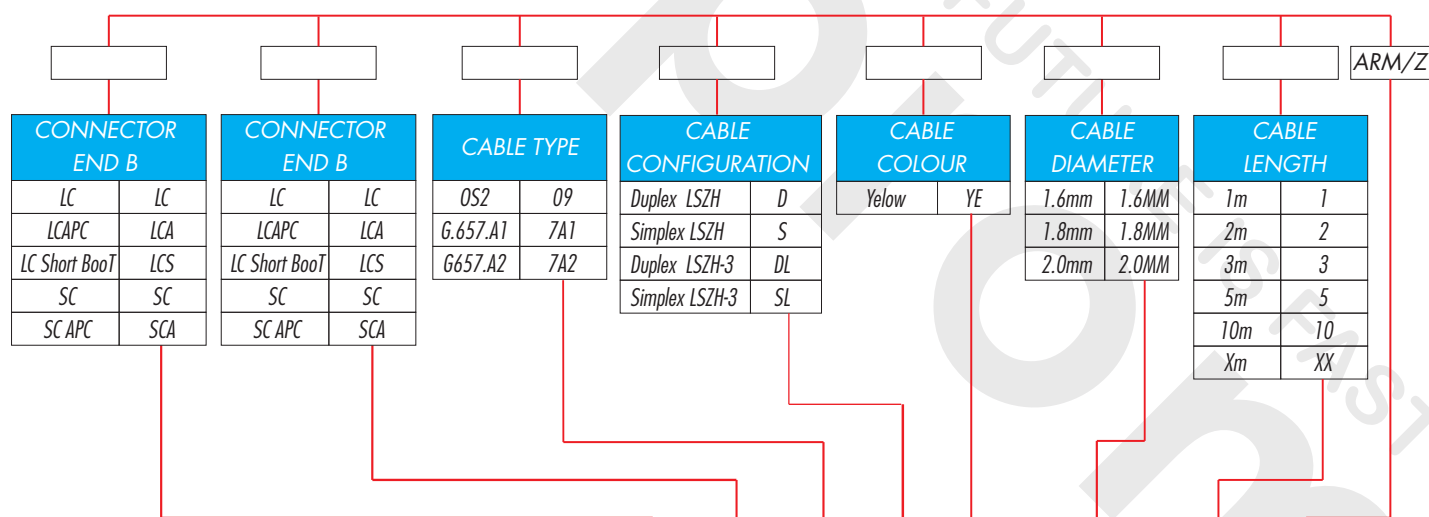
Example Part Number LCS LC 7A1 D YE 1.6MM 1 TC/Z

LCSLC7A1DYE1.6MM1TC/Z will configure a 1 metre LC duplex Patch cord made with 1.6mm zip cable G.657.A1

Data Centre Patch Cords

Our data centre patch cords are designed for low loss data centre applications. They provide flexible interconnection to active equipment, passive optical devices and cross-connects.

Our patch cords are terminated with premium grade zirconia ferrule connectors which help assure high transmission quality and low optical power loss.

Features

>> Enhanced optical performance to meet tight data centre power budgets
>> New flexible boot allows connection in compact spaces
>> Standard LC and SC connector types
>> Standard and Bend Insensitive OM3, OM4 and OS2 Fibre types
>> Available in standard and custom lengths
>> IEC, EIA/TIA and Telecordia compliant
>> RoHS, REACH and SvHC compliant

Applications

>> Data Centres
>> High Bandwidth Ethernet and Fibre Channel
>> Storage Area Networks (SANs)
>> Any critical network

Technical Drawing

Cable Specification

CHARACTERISTICS	
Cable Material	LSZH*
Strength Member	Aramid
Crush (N)	1000
Operating Temperature (°C)	-20 to 60
Fire Specification	IEC 60332-1
Secondary Buffer Diameter (2.0mm) µm	900±50
Secondary Buffer Diameter (1.6mm and 1.8mm)	600±50
Minimum Bend Radius (mm)	10D (installed) 20D (loaded)

Pigtails and Patchcords

Connector Specification

OPTICAL PERFORMANCE	MULTIMODE	CONFORMANCE
IL Max/Master (Acceptance)	0.15 dB	IEC 61300-3-4
Max IL/Random	0.25 dB	IEC 61300-3-34
Ave/Master	0.08 dB	IEC 61300-3-4
Ave/Random	0.10 dB	IEC 61300-3-34
Return Loss	>28dB	IEC 61300-3-6

MECHANICAL PROPERTIES	VALUE	CONFORMANCE
Mechanical endurance	500 matings	IEC 61300-2-2
Vibration	10-55 Hz, 0.75 amplitude	IEC 61300-2-1
Drop	5 drops at 1m	IEC 61300-2-12
Cable retention	50N	IEC 61300-2-4
Cable torsion	1.5kg-2.5kg for 2mm-3mm cable diameter	IEC 61300-2-5

CONNECTOR TYPE	CONFORMANCE	SINGLEMODE	MULTIMODE	SINGLEMODE DUPLEX	MULTIMODE DUPLEX
SC Connector	IEC 61754-4	SM PC – Blue, Blue Boots APC – Green, Green Boots	MM PC – Aqua, Aqua Boots	SM PC – Blue, Blue Boots APC – Green, Green Boots	MM PC – Aqua, Aqua Boots
LC Connector	IEC 61754-20	SM PC – Blue, White Boots APC – Green, White Boots	MM PC – Aqua, White Boots	SM PC – Blue, White Boots APC – Green, White Boots	MM PC – Aqua, White Boots

Part Number Generator

CONNECTOR END B		CONNECTOR END B		CABLE TYPE		CABLE CONFIGURATION		CABLE COLOUR		CABLE DIAMETER		CABLE LENGTH	
LC	LC	LC	LC	OS2	09	Duplex LSZH	D	Yelow	YE	1.6mm	1.6MM	1m	1
LC/APC	LCA	LC/APC	LCA	G.657.A1	7A1	Simplex LSZH	S	Aqua	AQ	1.8mm	1.8MM	2m	2
LC Short BooT	LCS	LC Short BooT	LCS	G657.A2	7A2	Duplex LSZH-3	DL	Erika Violet	EV	2.0mm	2.0MM	3m	3
SC	SC	SC	SC	OM3	OM3	Simplex LSZH-3	SL					5m	5
SC/APC	SCA	SC/APC	SCA	OM RBS	RM3							10m	10
				OM4	OM4							Xm	XX
				OM4RBS	RM4								

Example Part Number LCS   LC   RM3   D   AQ   1.6MM   5   DC/Z

LCSLCRM3DAQ1.6MM5DC/Z will configure a 5 metre LC duplex Patch cord made with 1.6mm zip cable OM3 RBS with short boot at one end

Patch cord cables are available with alternative jacket materials including PVC, UL listed riser or plenum and polyurethane.
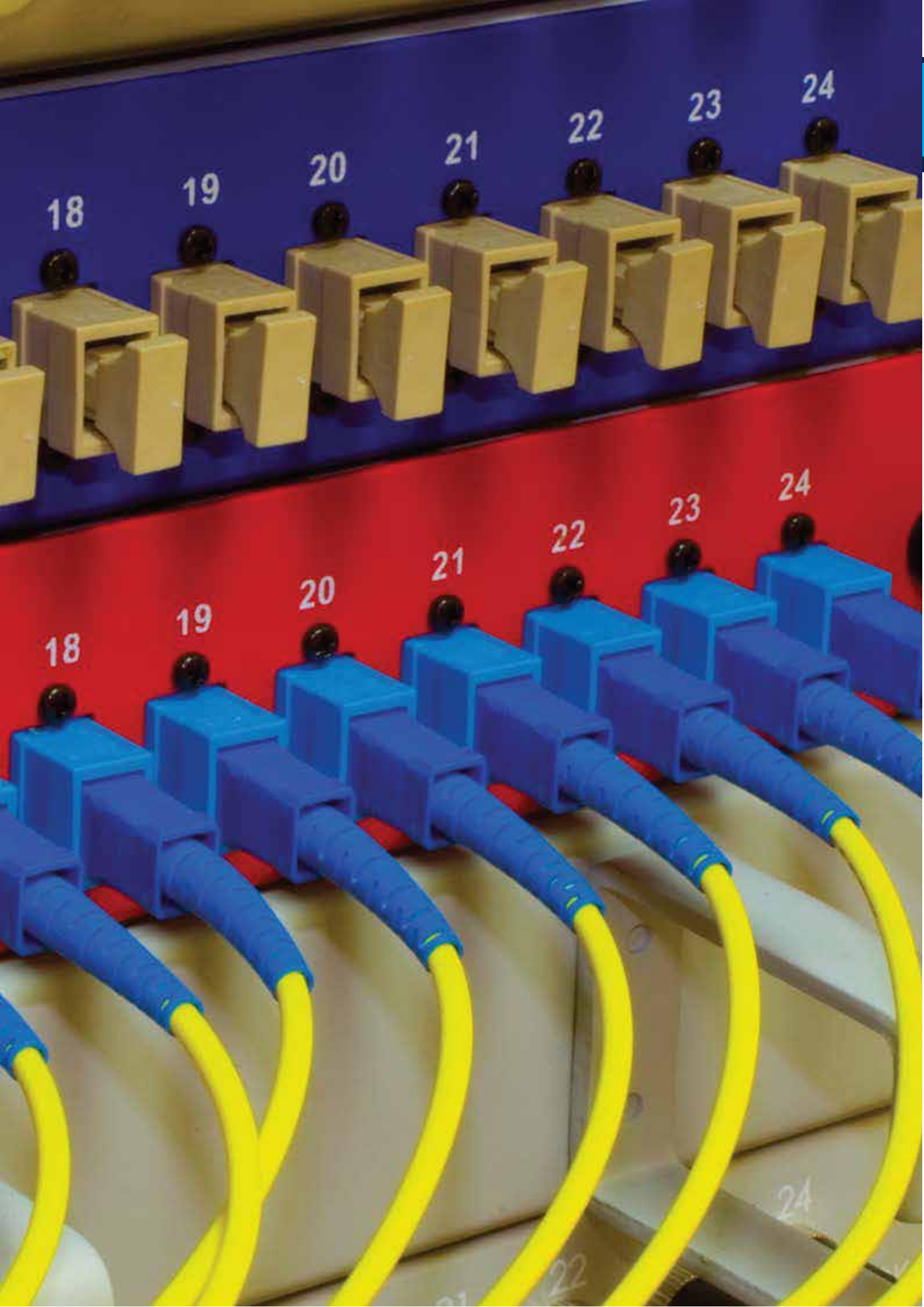
Connectors and Adaptors

SC Connectors

	APC	Singlemode	Multimode
Pigtails			
Simplex Patchcords			
Duplex Patchcords			
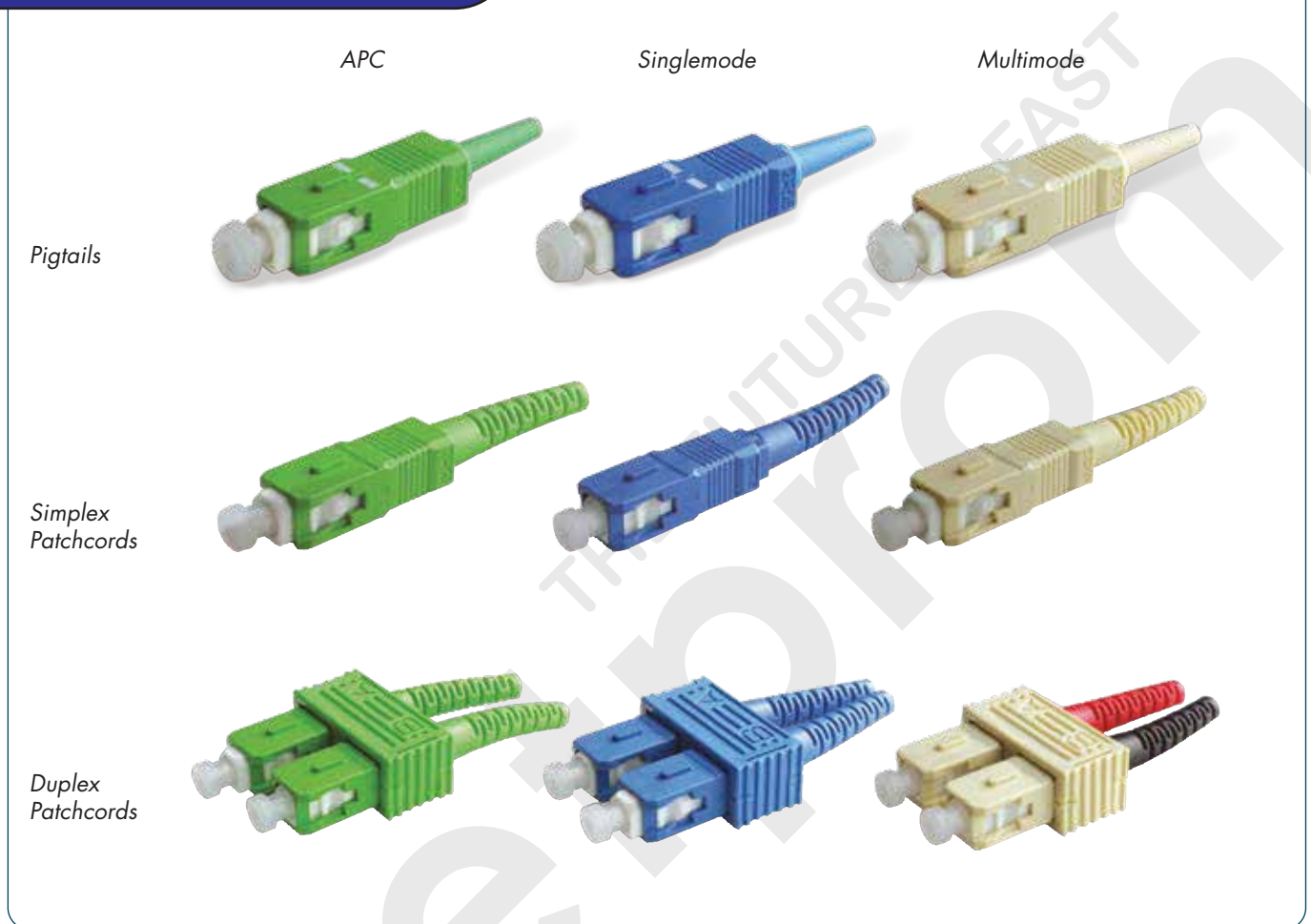
Netprom manufactures a range of SC connectors suitable for various applications.
SC connectors are used in most of the newer network applications and with less parts and a plastic body it offers an economical option.

The SC connectors are available in singlemode for both PC and APC and in multimode PC. The connectors come with standard Netprom boots suitable for 900 µm, 2mm and 3mm cable diameters. The Netprom SC connector is available in standard colours including blue, green and beige.

Features

>> Complies with IEC 61754-4, IEC 60784-14 and TIA 604-3
>> A push-pull coupling mechanism for easy
>> insertion and consistent connection
>> Zirconia ceramic ferrule available in several performance grades
>> Low insertion loss and back reflection capability
>> RoHS, REACH SvHC compliant

Applications

>> Data centres, premise installations, telecommunication networks
>> Ethernet, fibre channel, ATM, LAN, MAN and WAN

Connectors and Adaptors

Technical Drawings

SC Pigtail Connector (900μm)

Boot
Connector sub Assembly*
Coupling
Dust Cap
Stopper
Spring
Ferrule Assembly
Housing
Dust Cap

48.20
29.45
8.85
1.65
Ø 2.50
7.30

SC Simplex Connector (2mm / 3mm)

Crimp Ring
Boot
Crimp Eyelet
Connector sub Assembly*
Coupling
Dust Cap
Stopper
Spring
Ferrule Assembly
Housing
Dust Cap

56.65
29.45
8.85
1.65
Ø 2.50
7.30

SC Duplex Connector (2mm / 3mm)

Crimp Ring
Boot
Crimp Eyelet
Connector sub Assembly*
Duplex Clip
Coupling
Dust Cap
Stopper
Spring
Ferrule Assembly
Housing
Dust Cap

26
12.70
56.65
10.60

*Supplied assembled

SC Connectors

Technical Specification

Mechanical Properties	Criteria	Effect	Conformance
Mating Durability	500 matings	<0.2 dB change	IEC 61300-2-2
Vibration	10-55Hz, 0.75 amplitude	<0.2 dB change	IEC 61300-2-1
Drop	Drop height 1m, 5 drops	<0.2 dB change	IEC 61300-2-12
Cable retention	Magnitude 90 N	<0.2 dB change	IEC 61300-2-4
Cable torsion	1.5kg - 2.5kg for 2mm-3mm cable diameter	<0.2 dB change	IEC 61300-2-5
Operating temperature	-25 to +70°C, 12 cycles	<0.2 dB change	IEC 61300-2-22
Cold	-25 for 96 hrs	<0.2 dB change	IEC 61300-2-17
Dry Heat	+70 for 96 hrs	<0.2 dB change	IEC 61300-2-18

SC connector PC and APC- Singlemode

Optical Performance	GradeA	Grade B	Grade C	Conformance
IL MAX/Master (Acceptance)	0.10 dB	0.15 dB	0.25 dB	IEC 61300-3-4
IL MAX/Random	0.20 dB	0.30 dB	0.40 dB	IEC 61300-3-34
Ave/Master	0.08 dB	0.12 dB	0.18 dB	IEC 61300-3-4
Ave/Random	0.08 dB	0.12 dB	0.18 dB	IEC 61300-3-34
Return Loss	55/70 dB	55/65 dB	55/65 dB	IEC 61300-3-6

SC connector PC - Multimode

OPTICAL PERFORMANCE*	Grade D	Grade S	Conformance
IL MAX/Master (Acceptance)	0.15 dB	0.30 dB	IEC 61300-3-4
IL MAX/Random	0.25 dB	0.40 dB	IEC 61300-3-34
Ave/Master	0.08 dB	0.15 dB	IEC 61300-3-4
Ave/Random	0.10 dB	0.20 dB	IEC 61300-3-34

Achievable with FibreFab process and specified optical fiber

Ordering Information

			GradeA	Grade B	Grade C
Singlemode					
PC	Simplex	900 µm	SCSM9SMPX-H	SCSM9SMPX-P	SCSM9SMPX
		2mm	SCSM2SMPX-H	SCSM2SMPX-P	SCSM2SMPX
		3mm	SCSM3SMPX-H	SCSM3SMPX-P	SCSM3SMPX
	Duplex	2mm	SCSM2DPX-H	SCSM2DPX-P	SCSM2DPX
		3mm	SCSM3DPX-H	SCSM3DPX-P	SCSM3DPX
APC	Simplex	900 µm	SCAPC.9MM-H	SCAPC.9MM-P	SCAPC.9MM
		2mm	SCAPC2MM-H	SCAPC2MM-P	SCAPC2MM
		3mm	SCAPC3MM-H	SCAPC3MM-P	SCAPC3MM
	Duplex	2mm	SCAPC2DPX-H	SCAPC2DPX-P	SCAPC2DPX
		3mm	SCAPC3DPX-H	SCAPC3DPX-P	SCAPC3DPX
				Grade D	Grade S
Multimode					
PC	Simplex	900µm	-	SCMM9SMPX-P	SCMM9SMPX
		2mm	-	SCMM2SMPX-P	SCMM2SMPX
		3mm	-	SCMM3SMPX-P	SCMM3SMPX
	Duplex	2mm	-	SCMM2DPX-P	SCMM2DPX
		3mm	-	SCMM3DPX-P	SCMM3DPX

Connectors and Adaptors

SC Adaptors

APC   Singlemode   Multimode

Simplex

Duplex
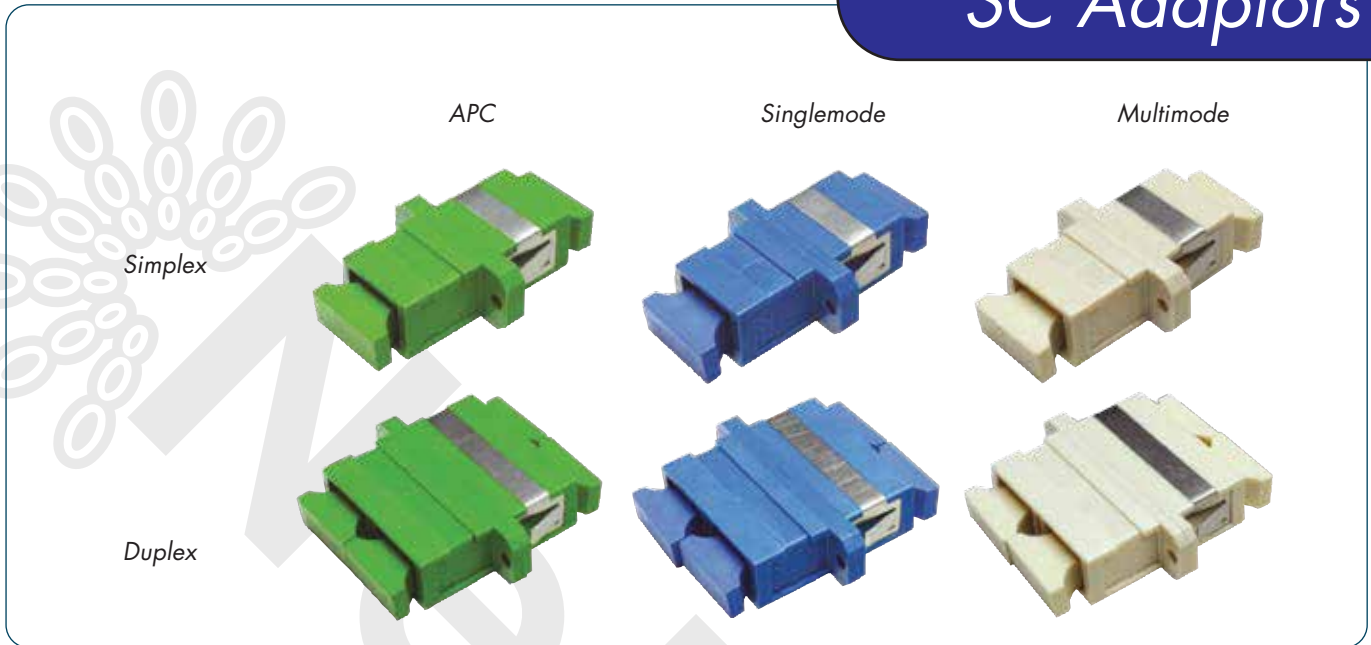
Netprom offers a range of high quality SC adaptors which have high precision alignment sleeves for reliability and improved reconnectability. For singlemode applications a ceramic sleeve is supplied to ensure a high precision alignment. For multimode applications a phosphor bronze sleeve is supplied. The housing is available in different colours with options for flange or flangeless body, metal clips or inbuilt clips.

Features

>> Complies with IEC 61754-4 and IEC 60784-14 standards
>> High precision alignment sleeve
>> Low insertion loss and improved reconnectability
>> RoHS, REACH, SvHC compliant
>> Available in simplex and duplex adaptors
>> SC simplex adaptors are available with a shutter
   (see page 10 for details)

Applications

>> Data centres, premise installations, telecommunication networks
>> Ethernet, fibre channel, ATM, LAN, MAN and WAN
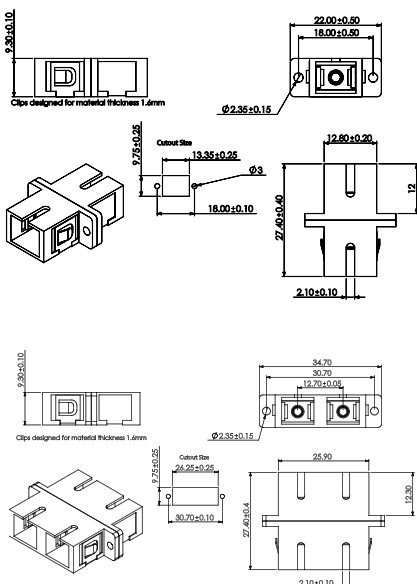
Technical Specification

	Ceramic	Phosphor Bronze	Conformance
Insertion Loss (Typ)	0.1 dB	0.15 dB	IEC 61300-3-4
Mating Durability	-	500	IEC 61300-2-2
Receptacle Retention force	-	2N - 5.9N	IEC 61754-4
Operating temperature	-	-25 to +70, 12 cycles	IEC 61300-2-22

Ordering Information

Mode	Type	Colour	Part No.	
			Simplex	Duplex
SM	APC	GREEN	SCAPCUSGREEN	SCAPCUDGREEN
SM	PC	BLUE	SCUSZR02	SCUDZR02
MM	PC	BEIGE	SCUSPHBRBEIGE	SCUDPHBRBEIGE
MM	PC	AQUA	SCSMPXAQUA	SCDPXAQUA

SC Shuttered Adaptors
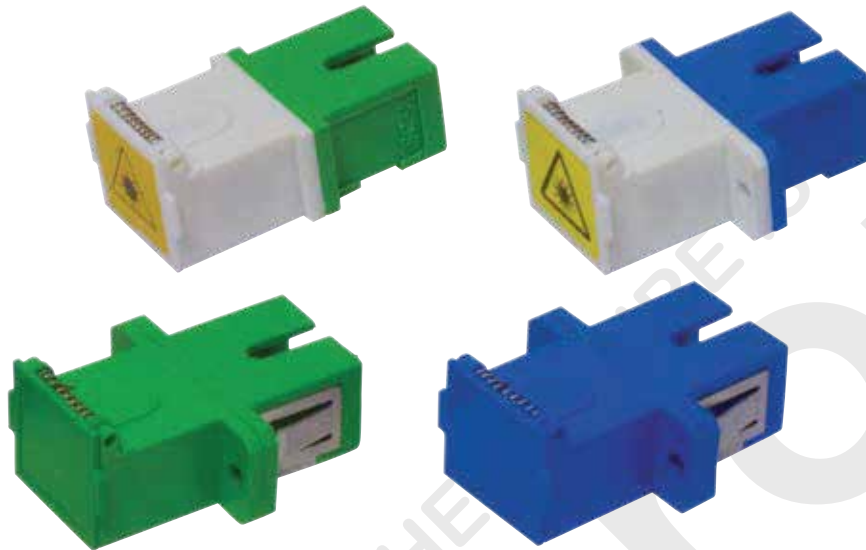
Netprom SC shuttered adaptor integrates safety features suitable for FTTH and other telecom applications. It has a high precision zirconia alignment sleeve designed for high reliability and excellent reconnectability in all singlemode networks. It has a spring loaded plastic shutter for laser safety and dust protection. The shutter displays a warning label to indicate laser risk. The adaptors are available in standard colours and packaging.

Features

>> Complies with IEC 61754-4, IEC 60784-14 and TIA 604-3
>> High precision alignment sleeve
>> High quality and durable shuttered adaptor
>> Low insertion loss and high reconnectability
>> RoHS, REACH SvHC
>> Available in standard colours and standard packaging

Applications

>> Specially designed for Fibre-To-The-Home (FTTH) applications
>> Telecommunication networks
>> CATV, LAN and WAN
>> Broadband
>> Indoor and outdoor applications

SC Shuttered Adaptor
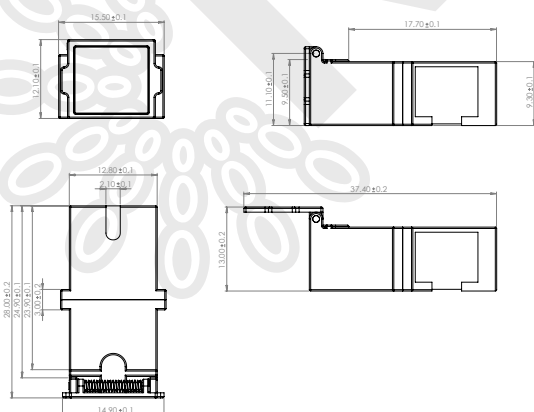
Technical Specification

	Ceramic	Conformance
Insertion Loss (Typ)	0.1dB	IEC 61300-3-4
Mating Durability	500 matings	IEC 61300-2-2
Receptacle Retention force	2N - 5.9N	IEC 61754-4
Vibration Test	10 - 55Hz, 0.75 amplitude	IEC 61300-2-1
Drop test	Drop height 1m, 5 drops	IEC 61300-2-12
Operating temperature	IEC 61300-2-22	IEC 61300-2-22
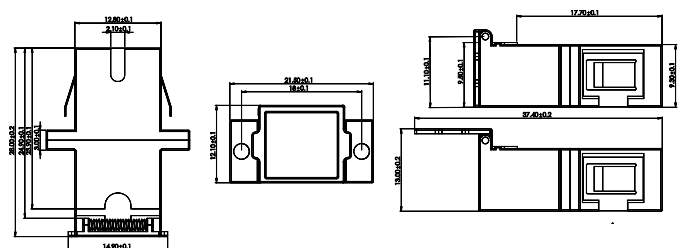
LC Connectors

Singlemode   Multimode

Pigtails

Simplex
Patchcords

Duplex
Patchcords
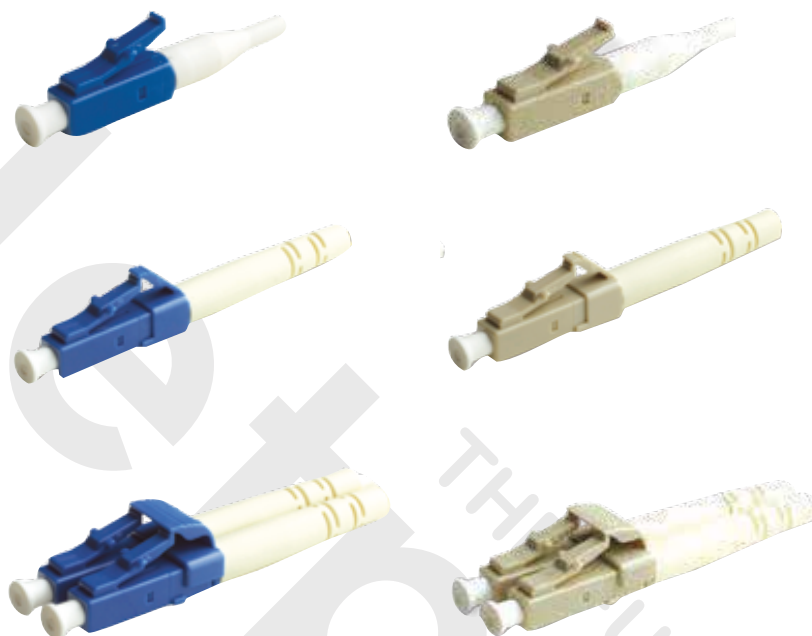
The Netprom LC Connector is a cost effective, small form factor fibre optic connector that helps to reduce space on panels or outlets by up to 50%. It uses the standard RJ-style telephone connector which gives an audible click upon engaging.

The LC connector uses a 1.25mm ferrule and is available in singlemode for both UPC and APC and in multimode PC. The connectors come with standard boots suitable for 900μm, 2mm and 3mm cable diameters. The connector is available in simplex and duplex (with clips) options available in blue, green and beige.

Features

>> Complies with IEC 61754-20 and TIA 604-10-A for
    intermateability
>> Compact design based on RJ45 style interface
>> Low insertion loss and back reflection capability
>> Zirconia ceramic ferrule with high end PC finish
>> RoHS, REACH SvHC compliant
>> Available in standard colours and standard packaging

Applications

>> Telecommunications networks
>> CATV, LAN, MAN and WAN application
>> Data processing networks
>> Cable television
>> Fibre-To-The-Home (FTTH
>> Premises distribution

Optical Fibre Assemblies

Technical Drawings

LC Pigtail Connector

Mechanical Reference Plane

8.60 ±0.1

A ← → A

34.50REF

5.65 ±0.05

B: 4.30 ±0.1
3.20 $_0^{+0.15}$ ⊕ 0.05 (M) B
2.30 ±0.1 ⊕ 0.05 (M) B

A: 4.47 ±0.05

4.47 ±0.05

Ø3.05 ±0.05 ⊕ 0.025 (M) A

Optical Reference Plane

31.90REF
4.93 ±0.05
3.40 ±0.1

Coupling
Stopper
Boot
PTFE Tube
Spring
Ferrule Assembly
Dust Cap
Supplied Pre-Assembled

LC Simplex Connector

Mechanical Reference Plane

8.60 ±0.1

A ← → A

5.65 ±0.05

3.20 $_0^{+0.15}$ ⊕ 0.05 (M) B
2.30 ±0.1 ⊕ 0.05 (M) B

A: 4.47 ±0.05

8.20   10.70

4.47 ±0.05

Ø3.05 ±0.05 ⊕ 0.025 (M) A

Optical Reference Plane

50.30REF
4.93 ±0.05
3.40 ±0.1

Boot
Stopper
Heatshrink
PTFE Tube
Spring
Coupling
Ferrule Assembly
Dust Cap
Supplied Pre-Assembled

LC Duplex Connector

Mechanical Reference Plane

8.60 ±0.1

5.65 ±0.05

B: 4.30 ±0.1
3.20 $_0^{+0.15}$ ⊕ 0.05 (M) B
2.30 ±0.1 ⊕ 0.05 (M) B

A: 4.47 ±0.05

8.20   10.70

4.47 ±0.05

6.25

Heatshrink
Boot
Stopper
Duplex Clip
PTFE Tube
Spring
Coupling
Ferrule Assembly
Dust Cap
Supplied Pre-Assembled

LC Connectors

Technical Specification

Mechanical Properties	Criteria	Effect	Conformance
Mating Durability	500 matings	<0.2 dB change	IEC 61300-2-2
Vibration	10-55Hz, 0.75 amplitude	<0.2 dB change	IEC 61300-2-1
Drop	Drop height 1m, 5 drops	<0.2 dB change	IEC 61300-2-12
Cable Retention	Magnitude 90 N	<0.2 dB change	IEC 61300-2-4
Cable Torsion	1.5kg -2.5kg for 2mm-3mm cable diameter	<0.2 dB change	IEC 61300-2-5
Operating Temperature	-25 to +70, 12 cycles	<0.2 dB change	IEC 61300-2-22
Cold	-25 for 96 hrs	<0.2 dB change	IEC 61300-2-17
Dry Heat	+70 for 96 hrs	<0.2 dB change	IEC 61300-2-18

LC connector PC and APC- Singlemode

Optical Performance*	Grade A	Grade B	Grade C	Conformance
IL MAX/Master (Acceptance)	0.10 dB	0.15 dB	0.25 dB	IEC 61300-3-4
IL MAX/Random	0.20 dB	0.30 dB	0.40 dB	IEC 61300-3-34
Ave/Master	0.08 dB	0.12 dB	0.18 dB	IEC 61300-3-4
Ave/Random	0.08 dB	0.12 dB	0.18 dB	IEC 61300-3-34
Return Loss	55/70 dB	55/65 dB	55/65 dB	IEC 61300-3-6

Achievable with FibreFab process and specified optical fiber

LC connector- Multimode

Optical Performance	Premium	Standard	Conformance
IL MAX/Master (Acceptance)	0.15	0.3	IEC 61300-3-4
IL MAX/Random	0.25	0.4	IEC 61300-3-34
Ave/Master	0.08	0.15	IEC 61300-3-4
Ave/Random	0.1	0.2	IEC 61300-3-34

Ordering Information

			Grade A	Grade B	Grade C
Singlemode					
UPC	Simplex	900μm	LCSM9-H	LCSM9-P	LCSM9
		2mm	LCSM2-H	LCSM2-P	LCSM2
		3mm	LCSM3SMPX-H	LCSM3SMPX-P	LCSM3SMPX
	Duplex	2mm	LCSM2DPX-H	LCSM2DPX-P	LCSM2DPX
		3mm	LCSM3DPX-H	LCSM3DPX-P	LCSM3DPX
APC	Simplex	900μm	LCAPC.9MM-H	LCAPC.9MM-P	LCAPC.9MM
		2mm	LCAPC2MM-H	LCAPC2MM-P	LCAPC2MM
	Duplex	2mm	LCAPC2DPX-H	LCAPC2DPX-P	LCAPC2DPX
				Grade D	Grade S
Multimode					
UPC	Simplex	900μm	-	LCMM9-P	LCMM9
		2mm	-	LCMM2-P	LCMM2
		3mm (Black)	-	LCMM3BLK-P	LCMM3BLK
		3mm (Red)	-	LCMM3RED-P	LCMM3RED
	Duplex	2mm	-	LCMM2DPX-P	LCMM2DPX
		3mm	-	LCMM3DPX-P	LCMM3DPX

Optical Fibre Assemblies

LC Adaptors

APC   Singlemode   Multimode

Simplex

Duplex

Quad
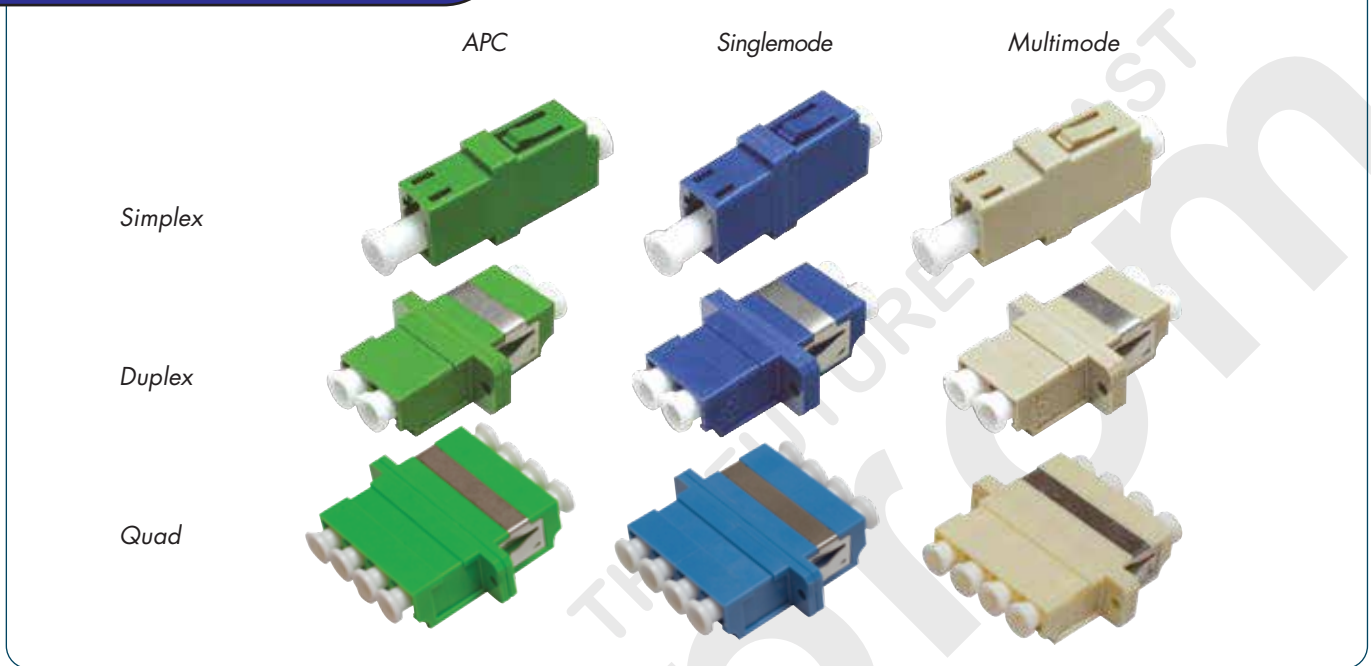
Netprom offers a range of quality LC adaptors which have high precision alignment sleeves for improved reliability and better reconnectability. The LC adaptors come with ceramic sleeves for singlemode and phosphor bronze sleeves for multimode. The housing is available in different colours with options for flange or flangeless body and metal, or inbuilt, clips.

Features

>> Complies with IEC 61754-20
>> High precision alignment sleeve
>> Low insertion loss and high reconnectability
>> RoHS, REACH SvHC compliant
>> Available in simplex, duplex and quad adaptors

Applications

>> Telecommunications networks
>> CATV, LAN, MAN and WAN application
>> Data processing networks
>> Cable television
>> Fibre-to-the-home
>> Premises distribution

Technical Specification

	Ceramic	Phosphor Bronze	Conformance
Insertion Loss (Typ)	0.1 dB	0.15 dB	IEC 61300-3-4
Mating Durability	500		IEC 61300-2-2
Receptacle Retention force	1N - 2.5N		IEC 61754-20
Operating temperature	-25 to +70, 12 cycles		IEC 61300-2-22

Ordering Information

Mode	Type	Colour	Part No.			Configuration
			Simplex	Duplex	Quad	
SM	APC	GREEN	-	LCAPCUDGREEN	LCQUADGREEN-W	Flange with two holes and SC footprint with metal clips
SM	PC	BLUE	LCUSZR02	LCDPXBLUE	LCQUADBLUE-W	
MM	PC	BEIGE	LCUSPHBR	LCDPXBEIGE	LCQUADBEIGE-S	
MM	PC	AQUA	-	LCDPXAQUA/S	LCQUADAQUA-W	
MM	PC	ERIKA VIOLET	Contact sales for details			
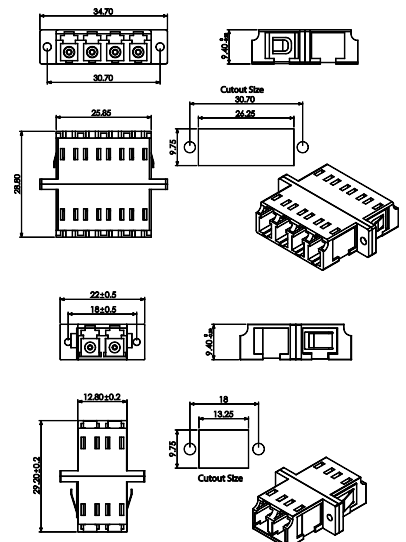
Connectors and Adaptors

ST Connectors

The ST connector has a quick release bayonet style body and spring loaded ferrule. ST connectors are commonly used in networking applications.
Netprom manufactures a range of ST connectors suitable for various applications.

Netprom ST connectors are available in singlemode PC or APC and multimode PC. The connectors come with standard boots suitable f or 900µm, 2mm and 3mm cable diameters.

Features

>> Complies with IEC 61754-2 and TIA 604-2
>> Low insertion loss and back reflection capability
>> Bayonet shaped housing for easy termination
>> Nickel plated brass body
>> Zirconia ceramic ferrule with high end PC finish
>> RoHS, REACH SvHC compliant

Applications

>> Local area networks
>> Data processing networks
>> Distribution application
>> Premises distribution
>> Test and laboratory equipment

Optical Fibre Assemblies

Technical Drawings

ST Connector

53.4REF
25
A ←→ A
Boot
Protective Tube
Lock Ring
Stopper
Crimp Eyelet
Coupling Nut
Dust Cap
Spring
Ferrule
Supplied
Pre-Assembled

0.99 ±0.08
7.95 +0.05/0

ST Pigtail Connector

43.6REF
A ←→ A
Boot
Lock Ring
Stopper
Coupling Nut
Dust Cap
Spring
Ferrule
Supplied
Pre-Assembled

Ø 5.35 ±0.1
0.99 ±0.08
7.95 +0.05/0

Connectors and Adaptors

ST Connectors

Technical Specification

Mechanical Properties	Criteria	Effect	Conformance
Mating Durability	500 matings	<0.2 dB change	IEC 61300-2-2
Vibration	10-55Hz, 0.75 amplitude	<0.2 dB change	IEC 61300-2-1
Drop	Drop height 1m, 5 drops	<0.2 dB change	IEC 61300-2-12
Cable retention	Magnitude 90 N	<0.2 dB change	IEC 61300-2-4
Cable torsion	1.5kg - 2.5kg for 2mm-3mm cable diameter	<0.2 dB change	IEC 61300-2-5
Operating temperature	-25 to +70, 12 cycles	<0.2 dB change	IEC 61300-2-22
Cold	-25 for 96 hrs	<0.2 dB change	IEC 61300-2-17
Dry Heat	+70 for 96 hrs	<0.2 dB change	IEC 61300-2-18

ST connector PC and APC- Singlemode

Optical Performance	Grade A	Grade B	Grade C	Conformance
IL MAX/Master (Acceptance)	0.10 dB	0.15 dB	0.25 dB	IEC 61300-3-4
IL MAX/Random	0.20 dB	0.30 dB	0.40 dB	IEC 61300-3-4
Ave/Master	0.08 dB	0.12 dB	0.18 dB	IEC 61300-3-4
Ave/Random	0.08 dB	0.12 dB	0.18 dB	IEC 61300-3-4
Return Loss	55/70 dB	55/65 dB	55/65 dB	IEC 61300-3-6

ST connector PC - Multimode

Optical Performance*	Premium	Standard	Conformance
IL MAX/Master (Acceptance)	0.15	0.3	IEC 61300-3-4
IL MAX/Random	0.25	0.4	IEC 61300-3-4
Ave/Master	0.08	0.15	IEC 61300-3-4
Ave/Random	0.1	0.2	IEC 61300-3-4

* Achievable with FibreFab process and specified optical fiber

Ordering Information

		Grade A	Grade B	Grade C
Singlemode				
	900μm	STSM9-H	STSM9-P	STSM9
PC Simplex	2mm	STSM2YEL-H	STSM2YEL-P	STSM2YEL
	3mm	STSM3YEL-H	STSM3YEL-P	STSM3YEL
			Grade D	Grade S
Multimode				
	900μm	-	STMM9-P	STMM9
	2mm (Black)	-	STMM2BLK-P	STMM2BLK
PC Simplex	2mm (Red)	-	STMM2RED-P	STMM2RED
	3mm (Black)	-	STMM3BLK-P	STMM3BLK
	2mm (Red)	-	STMM3RED-P	STMM3RED

ST Adaptors

Netprom ST adaptors have high precision alignment sleeves for reliability and better reconnectability. ST adaptors come with a ceramic sleeve for the singlemode and phosphor bronze sleeve for the multimode. The housing is available in double D footprint types.

Features

>> Complies with IEC 61754-2
>> Low insertion loss and high reconnectability capability
>> RoHS, REACH SvHC compliant
>> Available in simplex or duplex

Applications

>> Data processing networks
>> Premises distribution

Technical Specification

Optical Performance	Ceramic	Phosphor Bronze	Conformance
Insertion Loss (Typ)	0.1 dB	0.15 dB	IEC 61300-3-4
Mating Durability	500		IEC 61300-2-2
Receptacle Retention Force	1N - 2.5N		IEC 61754-20
Operating Temperature	-25 to +70, 12 cycles		IEC 61300-2-22

Ordering Information

Mode	Type		Part No.
SM	PC	Simplex	STUZR02
MM	PC	Simplex	STUPHBR
SM	PC	Duplex	STUDZR02METAL
MM	PC	Duplex	STUDPHBRBEIGE

12.70

30.48±1.80

Ø1.32±0.25

1.30

13.50

Cutout Size

R5

8
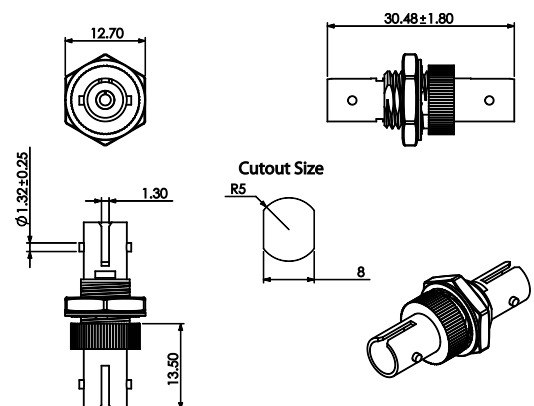
Connectors and Adaptors

FC Connectors

APC   Singlemode   Multimode

Pigtails

Simplex
Patchcord
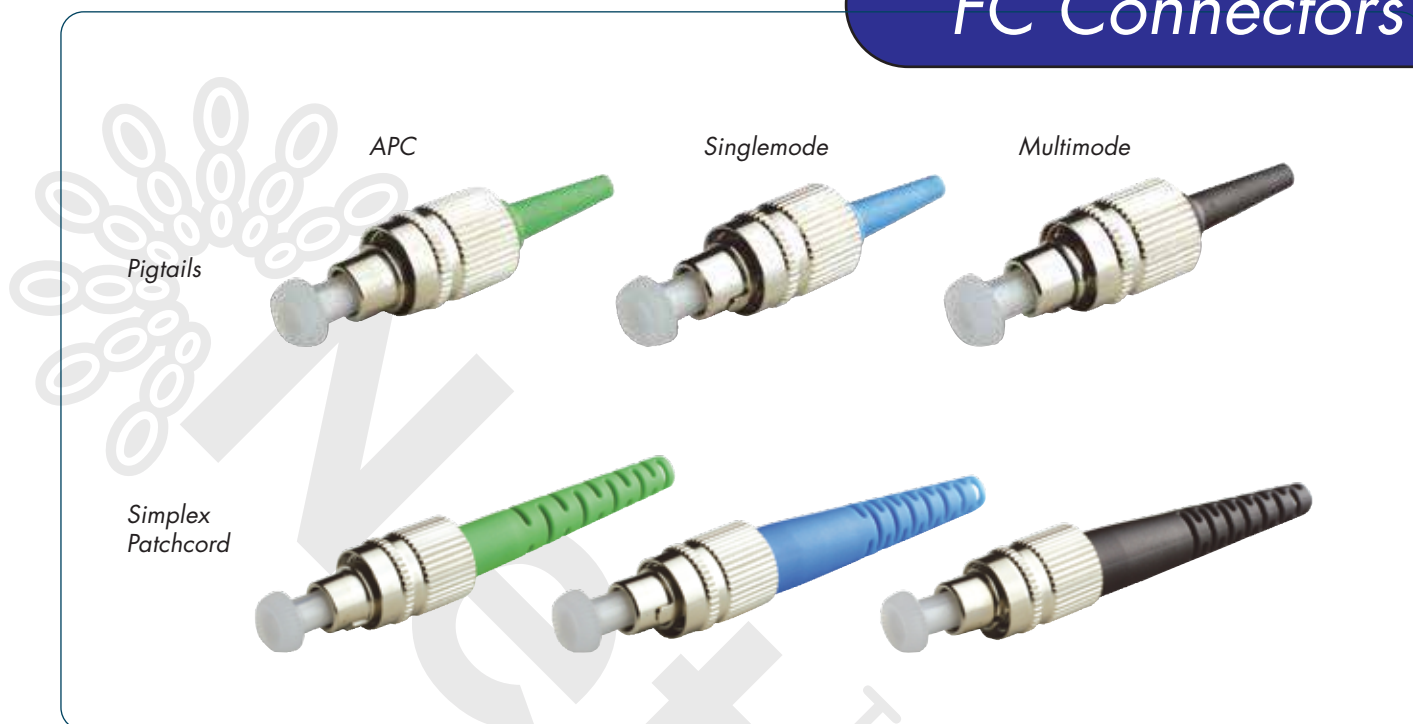
The Netprom FC features a 2.5 mm ferrule and a threaded coupling nut, for a secure connection in high vibration environments and in lab testing for consistent results.
Netprom manufactures a range of FC connectors suitable for various applications.

The FC connectors are available in singlemode in both PC and APC and multimode PC. The connectors come with boots suitable for 900µm, 2mm or 3mm cable diameters. The FC connectors are available in blue, green and beige.

Features

>> Complies with IEC 61754-13 and TIA 604-4-A for
    intermatability
>> Low insertion loss and back reflection
>> Precision anti rotation key for mechanical stability
>> Nickel plated metal body corrosion resistant
>> Zirconia ceramic ferrule with high end PC finish or APC finish
>> RoHS, REACH SvHC compliant
>> Individual parts packed in bulk package

Applications

>> Telecommunications networks
>> Local area networks
>> Data processing networks
>> Distribution application
>> Premises distribution
>> Test and laboratory equipment

Optical Fibre Assemblies

Technical Drawings

FC Connector

2±0.14

A — A

10

- Dust Cap
- Key Ring
- Plug Frame
- Coupling Nut
- Spring
- Crimp Eyelet
- Boot
- Crimp Ring
- Stopper
- Ferrule Assembly
- Washer
- Supplied Pre-Assembled

FC Pigtail Connector

2±0.14

A — A

37.50

17.50

3.90 +0.15 -0.10

10

- Dust Cap
- Key Ring
- Plug Frame
- Coupling Nut
- Spring
- Boot
- Stopper
- Ferrule Assembly
- Washer
- Supplied Pre-Assembled

FC Connectors

Technical Specification

Mechanical Properties	Criteria	Effect	Conformance
Mating Durability	500 matings	<0.2 dB change	IEC 61300-2-2
Vibration	10-55Hz, 0.75 amplitude	<0.2 dB change	IEC 61300-2-1
Drop	Drop height 1m, 5 drops	<0.2 dB change	IEC 61300-2-12
Cable retention	Magnitude 90 N	<0.2 dB change	IEC 61300-2-4
Cable torsion	1.5kg - 2.5kg for 2mm-3mm cable diameter	<0.2 dB change	IEC 61300-2-5
Operating temperature	-25 to +70, 12 cycles	<0.2 dB change	IEC 61300-2-22
Cold	-25 for 96 hrs	<0.2 dB change	IEC 61300-2-17
Dry Heat	+70 for 96 hrs	<0.2 dB change	IEC 61300-2-18

FC connector PC and APC- Singlemode

Optical Performance*	Grade A	Grade B	Grade C	Conformance
IL MAX/Master (Acceptance)	0.10 dB	0.15 dB	0.25 dB	IEC 61300-3-4
IL MAX/Random	0.20 dB	0.30 dB	0.40 dB	IEC 61300-3-34
Ave/Master	0.08 dB	0.12 dB	0.18 dB	IEC 61300-3-4
Ave/Random	0.08 dB	0.12 dB	0.18 dB	IEC 61300-3-34
Return Loss	55/70 dB	55/65 dB	55/65 dB	IEC 61300-3-6

FC connector- Multimode

Optical Performance*	Premium	Standard	Conformance
IL MAX/Master (Acceptance)	0.15	0.3	IEC 61300-3-4
IL MAX/Random	0.25	0.4	IEC 61300-3-34
Ave/Master	0.08	0.15	IEC 61300-3-4
Ave/Random	0.1	0.2	IEC 61300-3-34

* Achievable with FibreFab process and specified optical fiber

Ordering Information

		Grade A	Grade B	Grade C
Singlemode				
PC Simplex	900 µm	FCSM9-H	FCSM9-P	FCSM9
	2mm	FCSM2-H	FCSM2-P	FCSM2
	3mm	FCSM3-H	FCSM3-P	FCSM3
APC Simplex	900 µm	FCAPC.9MM-H	FCAPC.9MM-P	FCAPC.9MM
	2mm	FCAPC2MM-H	FCAPC2MM-P	FCAPC2MM
	3mm	FCAPC3MM-H	FCAPC3MM-P	FCAPC3MM
Multimode				
PC Simplex	900 µm	-	FCMM9-P	FCMM9
	2mm	-	FCMM2-P	FCMM2

FC Adaptors

Netprom offers a range of high quality FC adaptors featuring precision alignment sleeves for high reliability and better reconnectability.

FC adaptors come with ceramic sleeves for singlemode and phosphor bronze sleeve for multimode. The housing has a metal body and a M8 nut.

Features

>> Complies with IEC 61754-13 and TIA 604-4-A
>> High precision alignment sleeve for low insertion loss
>> Low insertion loss and high reconnectability
>> Narrow key, 2.06mm for APC and PC connectors
>> RoHS, REACH SvHC compliant
>> Available in simplex only with DD footprint

Applications

>> Telecommunications networks
>> Local area networks
>> Data processing networks
>> Cable television
>> Premises distribution
>> Test and laboratory equipment
>> Industrial and military application

Technical Specification

	Ceramic	Phosphor Bronze	Conformance
Insertion Loss (Typ)	0.1dB	0.15dB	IEC 61300-3-4
Mating Durability	500		IEC 61300-2-2
Receptacle Retention Force	2N – 5.9N		IEC 61754-13
Operating temperature	-25 to +70, 12 cycles		IEC 61300-2-22

Ordering Information

Mode	Type	Mount Type	Part No.
SM	APC	DD	FCAPCUZRO2-DD
SM	PC	DD	FCUZRO2-DD
MM	PC	DD	FCUPHBR-DD
SM	APC	SQUARE	FCAPCUZR02SQUARE
SM	PC	SQUARE	FCUZR02SQUARE
MM	PC	SQUARE	FCUPHBRSQUARE
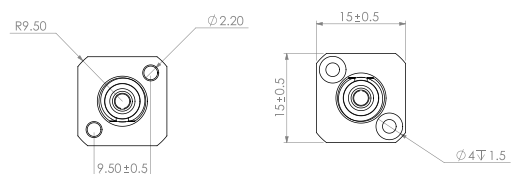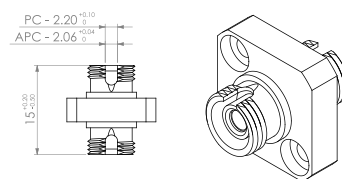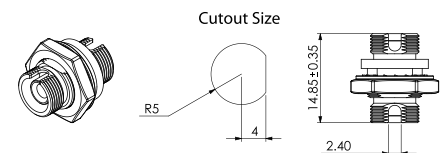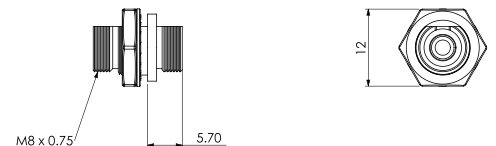
MU Connectors

Netprom MU connectors are the new generation small form factor connectors developed by NTT, Japan. MU connectors are similar to the SC connectors in construction and mechanical function, but have a ferrule diameter of 1.25mm.

Netprom offers a range of MU connectors suitable for various applications. Our connectors are subjected to intense mechanical testing and can withstand harsh environments and therefore we are proud to say that our products are of high quality.

Features

>> Complies with IEC 61754-6
>> Fewer parts for easy assembly and corrosion resistant thermoplastic body
>> A push-pull coupling mechanism for easy insertion and high repeatability
>> Two connections in one SC shape adaptor
>> Zirconia ceramic ferrule with high end PC finish
>> Low insertion loss and back reflection
>> RoHS, REACH SvHC
>> Available in standard colours and standard packaging

Applications

>> Data centres, premise installations, telecommunication networks
>> Ethernet, Fibre channel, ATM, LAN, MAN and WAN
>> Suited for high density application
>> Distribution cable assemblies
>> Board mounted application
>> Data processing networks
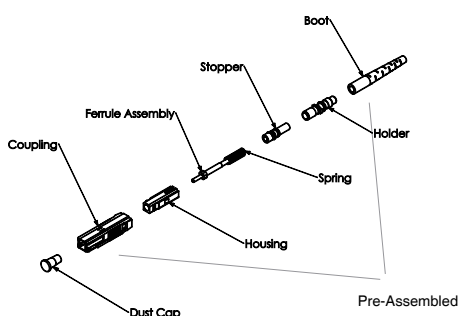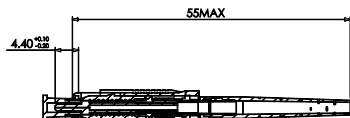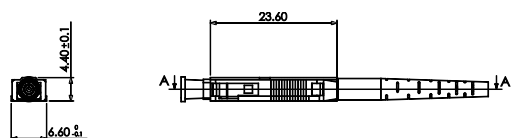
Technical Specification

Mechanical Properties	Criteria	Effect	Conformance
Mechanical endurance	500 matings	<0.2 dB change	IEC 61300-2-2
Vibration	10-55Hz, 0.75 amplitude	<0.2 dB change	IEC 61300-2-1
Drop	Drop height 1m, 5 drops	<0.2 dB change	IEC 61300-2-12
Cable retention	Magnitude 90 N	<0.2 dB change	IEC 61300-2-4
Cable torsion	1.5kg - 2.5kg for 2mm-3mm cable dia.	<0.2 dB change	IEC 61300-2-5
Operating temperature	-25 to +70, 12 cycles	<0.2 dB change	IEC 61300-2-22
Cold	-25 for 96 hrs	<0.2 dB change	IEC 61300-2-17
Dry Heat	+70 for 96 hrs	<0.2 dB change	IEC 61300-2-18

MU connector PC Singlemode

Optical Performance	Singlemode	Multimode	Conformance
IL MAX/Master (Acceptance)	0.15 dB	0.15 dB	IEC 61300-3-4
IL MAX/Random	0.30 dB	0.25 dB	IEC 61300-3-4
Ave/Master	0.12 dB	0.08 dB	IEC 61300-3-4
Ave/Random	0.12 dB	0.10 dB	IEC 61300-3-34
Return Loss	55/65 dB	-	IEC 61300-3-6
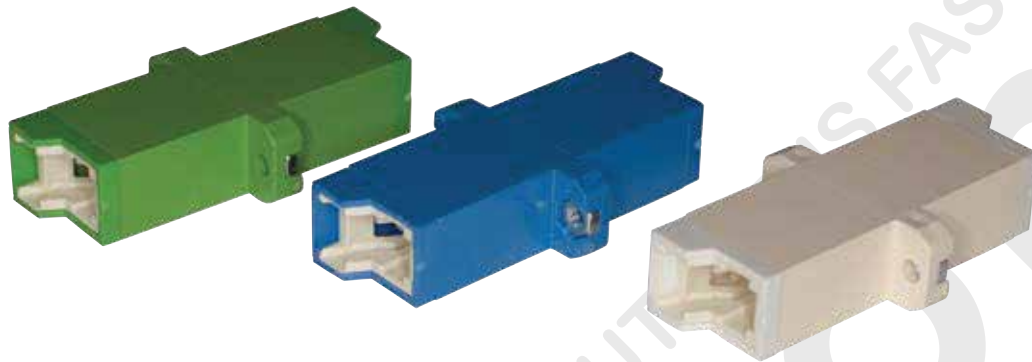
E2000 Adaptors

Netprom offers a range of high quality E2000 adaptors which have high precision alignment sleeves for reliability and better reconnectability. Each E2000 connector has an inbuilt mechanism to open the shutter and guide the ferrule in the alignment sleeve.

E2000 adaptors come with a ceramic sleeves for the singlemode and phosphor bronze sleeves for the multimode. The housing is available in different colours and a flangeless body option.

Features

>> Complies with IEC 61754-15
>> High precision alignment sleeve
>> Low insertion loss and high reconnectability
>> RoHS, REACH SvHC compliant
>> Available in simplex only

Applications

>> Suitable for high power laser applications
>> Telecommunications networks
>> WDM, DWDM applications
>> Testing and measurement equipment

Technical Specification

	Ceramic	Phosphor Bronze	Conformance
Insertion Loss (Typ)	0.1 dB	0.15 dB	IEC 61300-3-4
Mating Durability	500		IEC 61300-2-2
Receptacle Retention force	2N – 5.9N		IEC 61754-20
Operating temperature	-25 to +70, 12 cycles		IEC 61300-2-22

Ordering Information

Mode	Type	Colour	Simplex	Configuration
SM	APC	Green	E2APCUGREEN	Flange with two holes and SC footprint
SM	PC	Blue	E2UBLUE	
MM	PC	Beige	E2UBEIGE	
SM	APC	Green	E2APCUGREEN/FL	Flangeless with SC footprint
SM	PC	Blue	E2UBLUE/FL	
MM	PC	Beige	E2UBEIGE/FL	

M2 Nut

42.10

19.28

13

Cutout Size

9.75

13.25

18.00

9

22.20

18
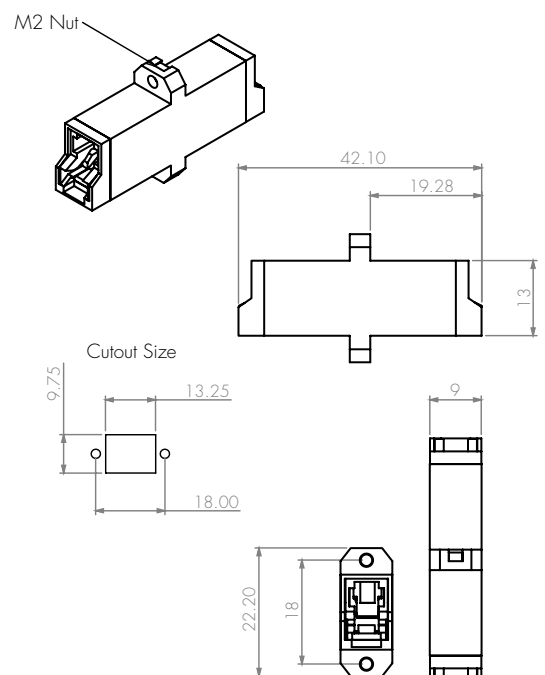
Connectors and Adaptors

MT-RJ Adaptors
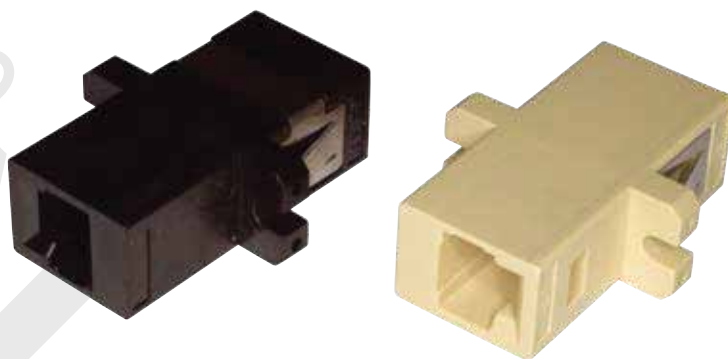
An optical fibre adapter or uniter is used to mate two connectors together, usually mounted in a distribution panel or wall box. In most cases it is the critical part of the system that aligns the ferrule part of the connectors keeping the fibres in perfect alignment.
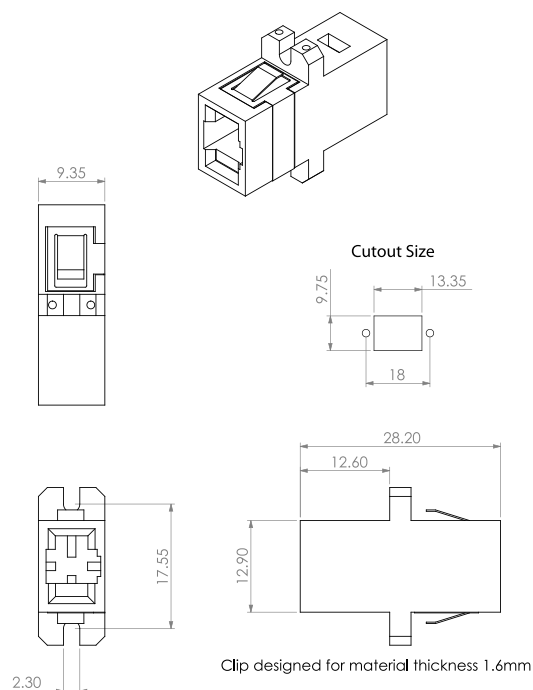
In the case of the MT-RJ and MPO the alignment is carried out by two small pins fitted to one of the connectors and the adapter is purely to support and lock the connectors. When joining MT-RJ connectors, one connector must always be male with pins and one must be female without pins.

Features

>> Transmission Method (ATM)
>> Premise installations
>> Industrial and military applications

Applications

>> Plug-jack (RJ-45) design
>> TIA/EIA568-A Compliant
>> Precision moulded for proper alignment
>> Available in black and beige coloured body

9.35

Cutout Size

9.75   13.35

18

28.20
12.60
12.90
17.55
2.30

Clip designed for material thickness 1.6mm

Technical Specification

	Singlemode	Conformance
Insertion Loss (Typ)	0.2dB	IEC 61300-3-4
Mating Durability	500 matings	IEC 61300-2-2
Receptacle Retention force	2N - 5.9N	IEC 61754-13
Vibration Test	10 - 55Hz 0.75 amplitude	IEC 61300-2-1
Drop test	Drop height 1m, 5 drops	IEC 61300-2-12
Operating temperature	-25 to +70, 12 cycles	IEC 61300-2-22

Ordering Information

Type	Color	Part No.
MM	BEIGE	MTRJUNITER
MM	BLACK	MTRJ-BLK

Hybrid Adaptors

Male to Female

E2000 Male
SC Female
APC

E2000 Male
LC Female
APC

E2000 Male
SC Female

FC Male
SC Female

ST Male
LC Female

ST Male
SC Female

FC Male
LC Female

LC Male
FC Female

SC Male
LC Female
APC

SC Male
LC Female

SC Male
FC Female

LC Male
SC Female
APC

LC Male
SC Female
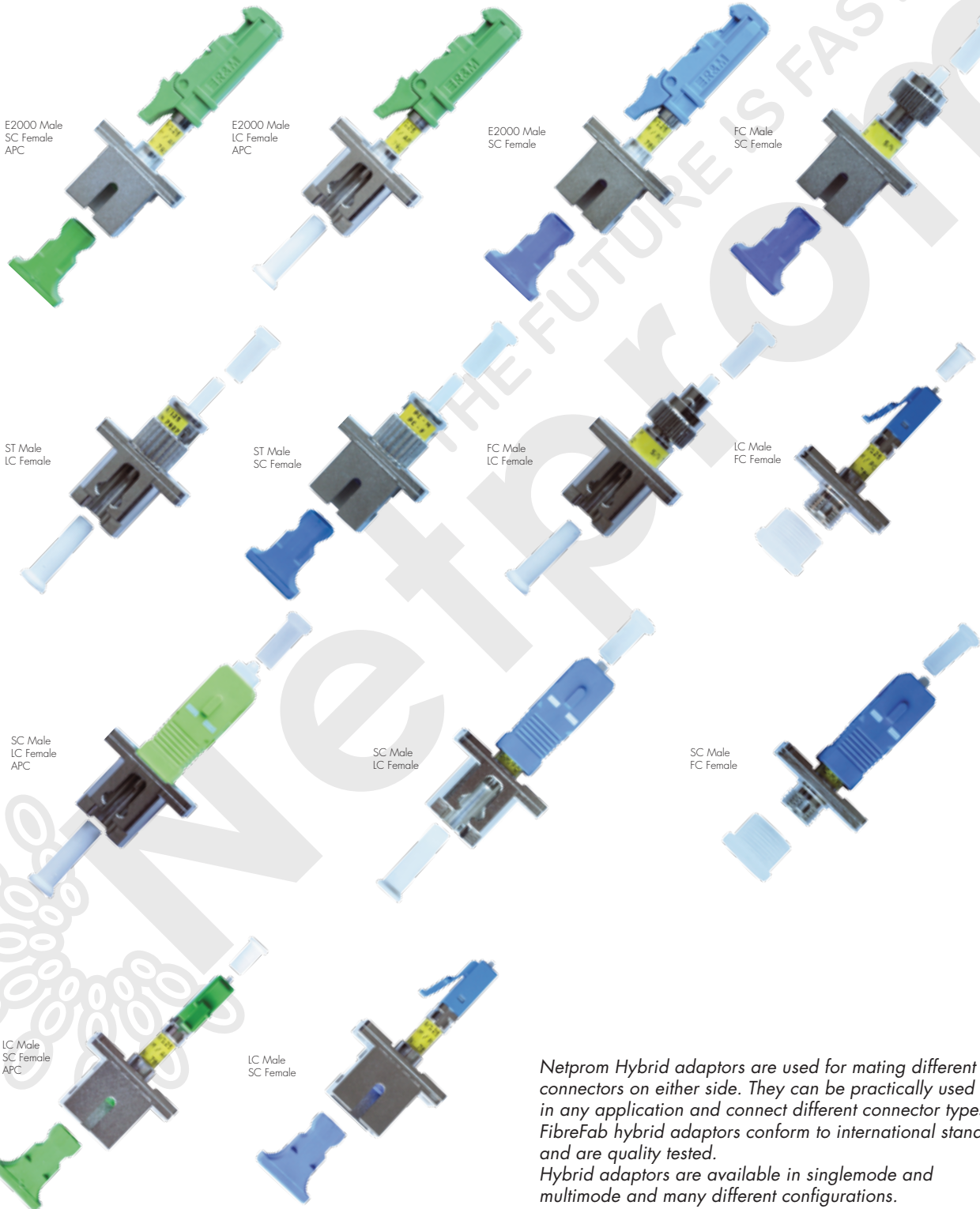
Netprom Hybrid adaptors are used for mating different connectors on either side. They can be practically used in any application and connect different connector types. FibreFab hybrid adaptors conform to international standards and are quality tested.
Hybrid adaptors are available in singlemode and multimode and many different configurations.

Connectors and Adaptors

Female to Female

LC Female
SC Female

LC Female
FC Female

SC Female
FC Female

LC Female
SC Female
Duplex

SC Female
FC Female
APC

SC Female
FC Female

ST Female
SC Female

LC Female
ST Female

LC Female
FC Female

LC Female
SC Female
APC
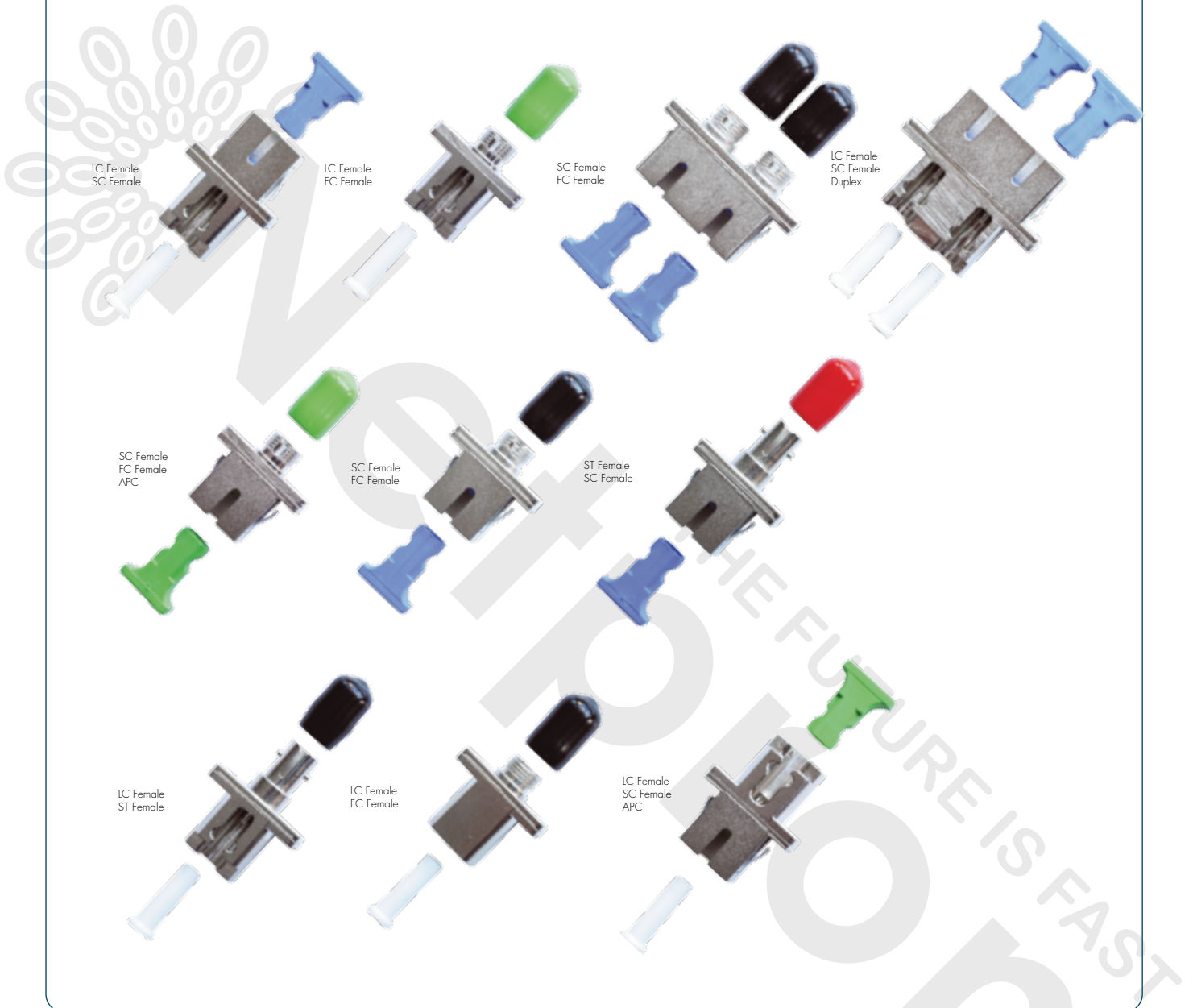
Features

>> TComplies with IEC, TIA/EIA, Telecordia standards.
>> High precision alignment sleeve
>> Low insertion loss and high reconnectability
>> RoHS, REACH SvHC
>> Available in plastic or metal body
>> Available in blue for singlemode and in beige for multimode

Applications

>> Telecommunications networks
>> Local area networks
>> Data processing networks
>> Cable television
>> Premises distribution
>> Test and laboratory equipment
>> Industrial and military applications

Optical Fibre Assemblies

Technical Specification

	Ceramic	Phosphor Bronze	Conformance
Insertion Loss (Typ)	0.1 dB	0.15 dB	IEC 61300-3-4
Mating Durability	500		IEC 61300-2-2
Receptacle Retention Force	2N – 5.9N		IEC 61754-13
Operating Temperature	-25 to +70, 12 cycles		IEC 61300-2-22

Ordering Information

Male to female adaptors

Item description	Part No.
ADAPTOR HYB - LCFCA MALE TO FEMALE- ZR- SX - NO CLIP - STD	LCFCADSZ1MF-S
ADAPTOR HYB - LCSC MALE TO FEMALE- ZR- SX - NO CLIP - STD	LCSCADSZ1MF-S
ADAPTOR HYB - LCSCA MALE TO FEMALE- ZR- SX - NO CLIP - STD	LCSCADAZ1MF-S
ADAPTOR HYB - SCFC MALE TO FEMALE- ZR- SX - NO CLIP - STD	SCFCADSZ1MF-S
ADAPTOR HYB - SCLC MALE TO FEMALE- ZR- SX - NO CLIP - STD	SCLCADSZ1MF-S
ADAPTOR HYB - SCLCA MALE TO FEMALE- ZR- SX - NO CLIP - STD	SCLCADAZ1MF-S
ADAPTOR HYB - FCSC MALE TO FEMALE- ZR- SX - NO CLIP - STD	FCSCADSZ1MF-S
ADAPTOR HYB - FCLC MALE TO FEMALE- ZR- SX - NO CLIP - STD	FCLCADSZ1MF-S
ADAPTOR HYB - STSC MALE TO FEMALE- ZR- SX - NO CLIP - STD	STSCADSZ1MF-S
ADAPTOR HYB - STLC MALE TO FEMALE- ZR- SX - NO CLIP - STD	STLCADSZ1MF-S
ADAPTOR HYB - E2SC MALE TO FEMALE- ZR- SX - NO CLIP - STD	E2SCADSZ1MF-S
ADAPTOR HYB - E2LC MALE TO FEMALE- ZR- SX - NO CLIP - STD	E2LCADSZ1MF-S
ADAPTOR HYB - E2SCA MALE TO FEMALE- ZR- SX - NO CLIP - STD	E2SCADAZ1MF-S
ADAPTOR HYB - E2LCA MALE TO FEMALE- ZR- SX - NO CLIP - STD	E2LCADAZ1MF-S

Female to female adaptors

Item description	Part No.
PC Simplex	
ADAPTOR HYB - SCST METAL BODY- ZR- SX - NO CLIP - STD	SCSTADSZ1NOMB-S
ADAPTOR HYB - LCST METAL BODY- ZR- SX - NO CLIP - STD	LCSTADSZ1NOMB-S
ADAPTOR HYB - FCSC METAL BODY- ZR- SX - NO CLIP - STD	FCSCADSZ1NOMB-S
ADAPTOR HYB - LCSC METAL BODY- ZR- SX - NO CLIP - STD	LCSCADSZ1NOMB-S
ADAPTOR HYB - FCLC METAL BODY- ZR- SX - NO CLIP - STD	FCLCADSZ1NOMB-S
APC/APC Simplex	
ADAPTOR HYB - FCSC APC-METAL BODY- ZR- SX - NO CLIP - STD	FCSCADAZ1NOMB-S
ADAPTOR HYB - LCSC APC-METAL BODY- ZR- SX - NO CLIP - STD	LCSCADAZ1NOMB-S
ADAPTOR HYB - FCLC APC-METAL BODY- ZR- SX - NO CLIP - STD	FCLCADAZ1NOMB-S
PC/PC Duplex	
ADAPTOR HYB - FCSC METAL BODY- ZR- DX - NO CLIP - STD	FCSCADSZ2NOMB-S
ADAPTOR HYB - LCSC METAL BODY- ZR- DX - NO CLIP - STD	LCSCADSZ2NOMB-S

Connectors and Adaptors

Connector Boots

90°C Angled Boots
Blue, Red, Black

SC 3mm Boot

FC 3mm Boot

FC 2mm Boot

LC 3mm Boot

SC/FC 900µm Boot

Angle 45º Boot

ST 3mm Boot Red & Black

ST 3mm Boot

ST 2mm Boot

ST 900µm Boot
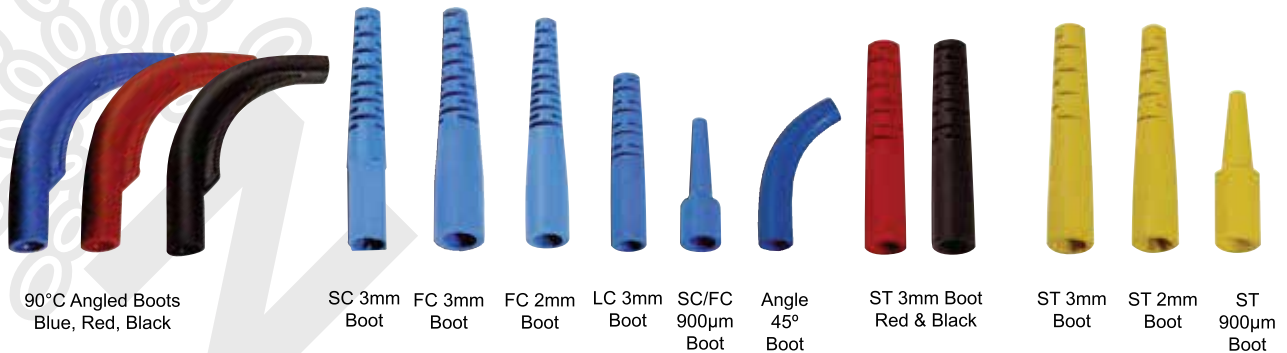
Features

>> Connector boots available in different colours
>> 90° boots to reduce stress on the fibre and maintain the bending radius
>> 45° angle boots for bending flexibility
>> Short boots for small diameter cables

Applications

>> Customized options of boot colours and types for channel identification
>> 90° boots 45° angle boots are suitable for data centre applications for optimising cable management
>> Short boots are suitable for 1.2mm to 2mm cable diameters and saves space in the patching area when compared to the conventional boots

Ordering Information

Item description	Part No.
90°C Angled Boot Blue	LC3BLUEBOOT90
90°C Angled Boot Red	LC3REDBOOT90
90°C Angled Boot Black	LC3BLACKBOOT90
SC 3mm Boot	SC3BLUEBOOT
FC 3mm Boot	FC3BLUEBOOT
FC 2mm Boot	FC2BLUEBOOT
LC 3mm Boot	LC3BLUEBOOT
SC/FC 900µm Boot Blue	SC9BLUEBOOT
45°C Angled Boot Blue	LC3BLUEBOOT45
ST 3mm Boot Red	ST3REDBOOT
ST 3mm Boot Black	ST3BLACKBOOT
ST 3mm Boot	ST3YELLOWBOOT
ST 2mm Boot	ST2YELLOWBOOT
ST 900µm Boot	ST9YELLOWBOOT

Fibre Optic Cable

Fibre Optic Solutions

Labelling Conventions

The following icons are used throughout this catalogue to represent the Netprom cable specification, features and value added services that Netprom can offer:

Fibre Specifications

OS2 9/125

OM1 62.5/125

OM2 50/125

OM3 50/125

OM4 50/125

Fibre Cable Features

Internal Use

External Use

Water Resistant

Fire Retardant

Rodent Resistant

Telecommunications

Ruggedised

Rapid Deployment

Standard Length

1km

LSZH (Low Smoke Zero Halogen) Performance Requirements

>> IEC 61034-1 & 2 Smoke Emission
>> IEC 60332-1 Flammability
>> IEC 60754- 1 Toxicity
>> IEC 60754- 2 Acid Gas Emission
>> Limiting Oxygen Index (LOI) not less than 30 in accordance with ISO 4589-2 or equivalent.

Fibre Optic Cable

Secondary Coated 900µm Fibre
- Ideal for Pigtails

Technical Specifications

DESCRIPTION		1-CORE
Outer Diameter	mm	0.9
Weight	kg/km	0.9
Max. Load (installation)	N	6
Max. Load (installed)	N	3
Min. Bend Radius (installation)		30mm
Min. Bend Radius (installed)		30mm
Temperature Range	°C	-20~+70

Netprom secondary coated 900µm fibres are ideal for use within splice trays or in other protected environments. These fibres are available in either standard or easy-strip formatsand in twelve different colours for easy identification.

Part Number Generator

Fibre Type	Colour	Strip Option
OM1 = OM1B OM2 = OM2B OS1/OS2 = OS1/OS2 B *OM3 also available on application	RD = RED GN = GREEN BL = BLUE OR = ORANGE BR = BROWN GY = GREY YE = YELLOW PK = PINK WH = WHITE BK = BLACK AQ = AQUA PU = PURPLE	-C = TIGHT BUFF -ERED EASY-C = EASY STRIP

Plastic Reel

Plastic Storage Case

Example:

OM1B	PU	EASY-C
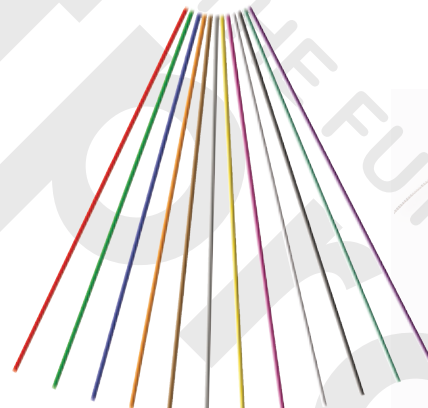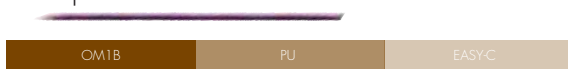
(OM1 Purple 1-Core Easy Strip)

Pigtail

Colour Options

900µm Buffered Pigtail Fibre

900µm OM1 62.5/125, OM2 50/125, OM3 50/125 multimode or OS1/OS2 (ITU-T G.652D) singlemode 900µm buffered pigtail range.

>> Choice of fibre types
>> Choice of buffering material and stripping options
>> Robust 900µm secondary coated fibres for ease of termination
>> Standard white buffer colour
>> Also available in 12 standard colours on request

Applications

>> Pigtails
>> Internal interconnect
>> deal for a wide range of telecoms, datacoms and process control applications where ruggedisation is required
>> Data centres
>> Suitable for repeated handling in patch panels and racks
>> Suitable for all standard connector types.

OS2 9/125 OM1 62.5/125 OM2 50/125 OM3 50/125 OM4 50/125 1km

Fibre Optic Solutions

Secondary Coated 900µm Fibre

G.652 D OS1/OS2 Singlemode Optical Fibre

Netprom specification for ITU-T G.652 D 9/125 singlemode optical fibre exceeds the OS2 singlemode requirement(s). Low Water Peak (LWP) singlemode optical fibre with doped silica core and silica cladding; dual layer UV cured acrylic resin primary coatings. All fibre parameters meet or exceed the following LWP singlemode requirements.

Detailed technical specifications are available on request:

• ITU-T G.652 D
• IEC 60793-2-50 type B1.3
• ISO/IEC 11802 OS1/OS2
• TIA/EIA 492-CAAB
• Telcordia GR-20-CORE

OS2 9/125   **5km**

Applications

>> Operational in the entire 1260nm to 1625nm wavelength range
>> Low chromatic dispersion in the 1310nm operating window
>> Low attenuation at the 1383 nm water peak region
>> Operational in the 1360nm to 1460 nm
>> All OS2 Netprom cable constructions including tight buffered, loose tube and ribbon
>> Supports 1 Gb/s up to an indicative 5 km in data networks
>> Supports high speed multi channel video, data and voice services in metropolitan and access networks
>> ATM, SONET and WDM, CWDM

62.5/125 OM1 Multimode Optical Fibre

Netprom specifications for standard OM1 62.5/125 graded-index multimode optical fibre with doped silica core and silica cladding. Dual layer UV cured acrylic resin primary coatings. All fibre parameters meet or exceed the following 62.5/125 requirements.

Detailed technical specifications are available on request:

• ITU-T G.651
• IEC 60793-2-10 type A1b
• ISO/IEC 11802 OM-1
• TIA/EIA-492AAAA
• Telcordia GR-20-CORE

OM1 62.5/125   **5km**

Applications

>> Gigabit Ethernet in high speed LAN networks, over an indicative 275m link length at 850 nm wavelength
>> Legacy networks including Ethernet, Fast Ethernet and FDDI
>> All OM1 Netprom cable constructions, including tight buffered, loose tube and ribbon
>> Data centres
>> Premises cabling in data networks including backbone, riser and horizontal
>> Supports video, data and voice services

50/125 OM2, OM3 & OM4 Multimode Optical Fibre

Netprom specification for standard OM2, OM3 and OM4, 50/125 graded-index multimode optical fibre with doped silica core and silica cladding. Dual layer UV cured acrylic resin primary coatings. All fibre parameters meet or exceed the following generic and laser-optimised 50/125 requirements.

Detailed technical specifications are available on request:

• ITU-T G.651
• OM2 to IEC 60793-2-10 type A1a.1. OM3 to IEC 60793-2-10 type A1a.2 , OM4 to IEC 60793-2-10 type A1a.3.
• ISO/IEC 11801
• OM2 to TIA/EIA-492AAAB. OM3 to TIA / EIA-492AAAC. OM4 to TIA / EIA-492AAAD
• Telcordia GR-20-CORE

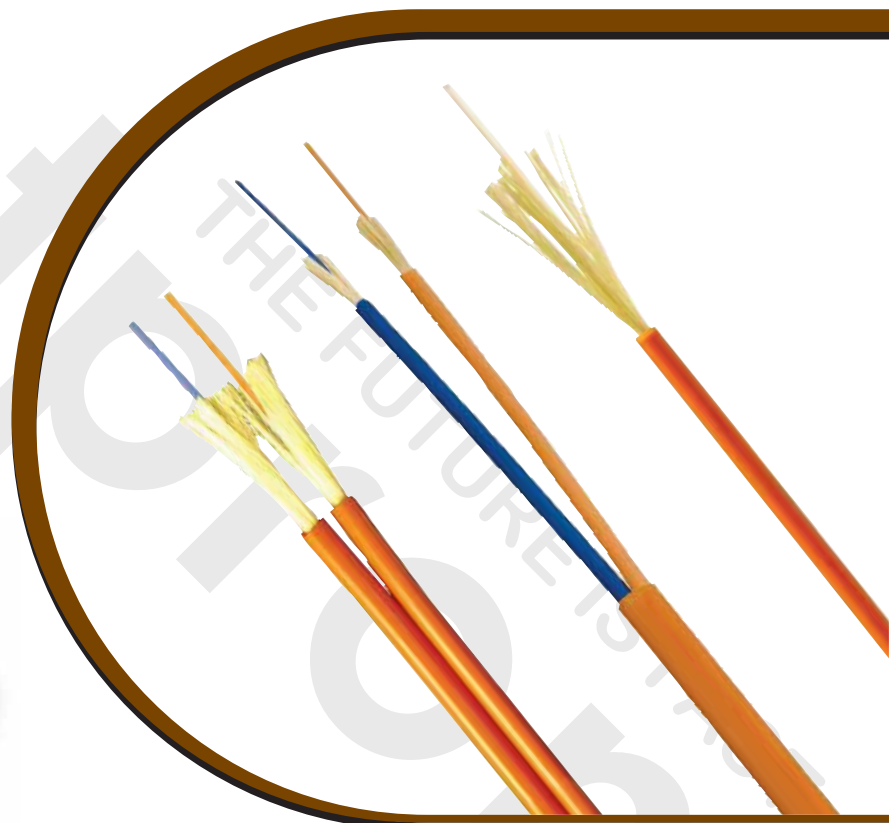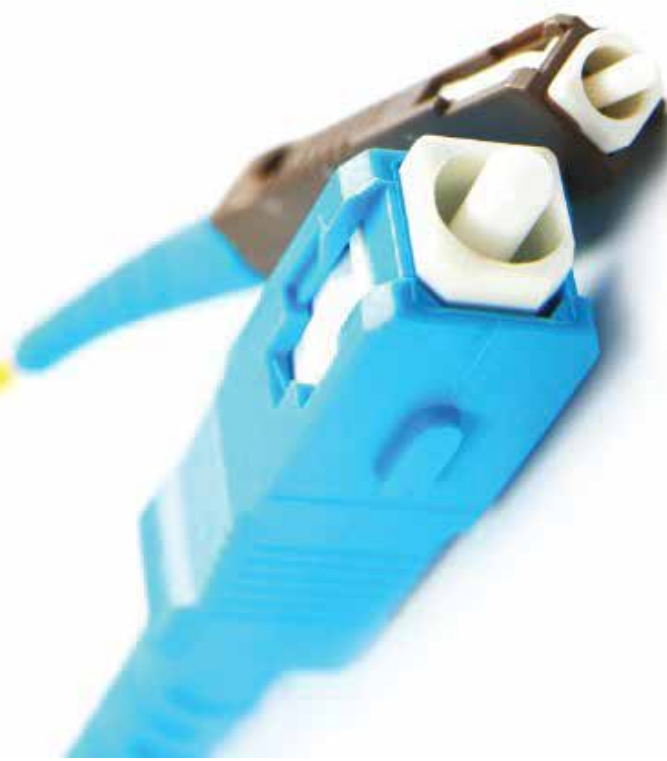**OM2** 50/125   **OM3** 50/125   **OM4** 50/125   **1km**

Applications

>> OM2 for use in 1 Gb/s high speed LAN networks over a 550m indicative link length at 850nm wavelength using a laser launch
>> OM3 for use in 10 Gb/s high speed LAN networks over a 300m indicative link length at 850nm wavelength using a laser launch
>> OM3 for use in 1 Gb/s high speed LAN networks over a 1000m indicative link length at 850 nm wavelength using a laser launch
>> OM4 for use in 10 Gb/s high speed LAN networks over a 550m indicative link length at 850nm wavelength using a laser launch
>> OM4 for use in 1 Gb/s high speed LAN networks over a 1000m indicative link length at 850 nm wavelength using a laser launch
>> High speed and legacy networks including Gigabit Ethernet, Fast Ethernet and Ethernet
>> All OM2, OM3 & OM4 Netprom cable constructions including tight buffered, loose tube and ribbon
>> Data centres
>> Premises cabling in data networks including backbone, riser and horizontal
>> Supports video, data and voice services

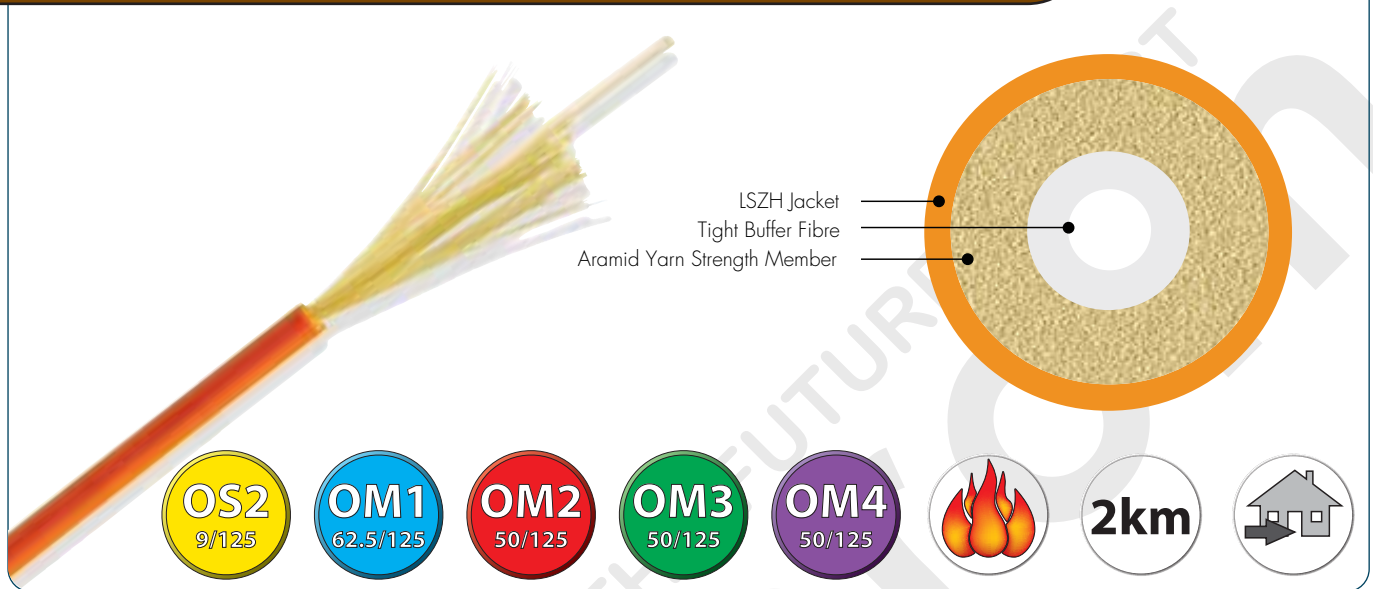# Fibre Optic Cable

Cable for Patchcords

The cables are jacketed in a Low Smoke Zero Halogen material to reduce the emission of toxic fumes in the event of fire and to comply with international fire regulations.

Netprom fibre optic patch cables are ideal for patchcords and pigtails which are utilised in equipment rooms, data cabinets and at user outlets.

Simplex Fibre Optic Patch Cable

LSZH Jacket
Tight Buffer Fibre
Aramid Yarn Strength Member

OS2 9/125   OM1 62.5/125   OM2 50/125   OM3 50/125   OM4 50/125   2km

Netprom simplex fibre optic patch cable is ideal for use in office LAN connections, patchcords, pigtails and internal point-to-point links where frequent handling is likely (e.g. data cabinets, equipment rooms, user outlets). Utilising 600µm or 900µm buffered fibre, the cable is suitable for use with industry standard connectors and can be easily made into a patchcord.

Ordering Information

PRODUCT DESCRIPTION	PART NO.	PRODUCT DESCRIPTION	PART NO.
OM1 62.5/125 µm Multimode		OM3 50/125 µm Multimode	
1-Core 2.0mm	OM1SIMOR2MM6-C	1-Core 2.0mm	OM3SIMAQ2MM6-C
1-Core 3.0mm	OM1SIMOR-C	1-Core 3.0mm	OM3SIMAQ-C
OM2 50/125 µm Multimode		OM4 50/125 µm Multimode	
1-Core 2.0mm	OM2SIMOR2MM6-C	1-Core 2.0mm	OM4SIMAQ2MM6-C
1-Core 3.0mm	OM2SIMOR-C	1-Core 3.0mm	OM4SIMAQ-C
OS1/OS2 /OS2 9/125 µm Singlemode			
1-Core 2.0mm	OS1/OS2 SIMY-E2MM6-C		
1-Core 3.0mm	OS1/OS2 SIMYE-C		

Other diameters are available upon request.

Technical Specifications

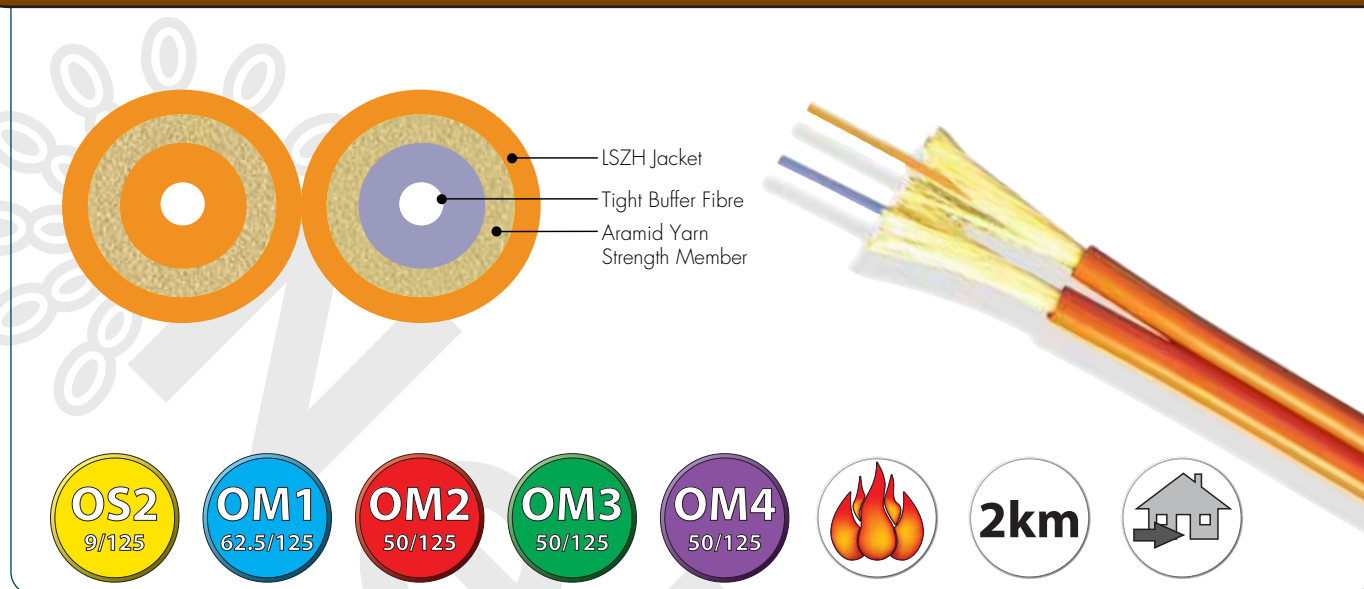| DESCRIPTION		1-CORE LSZH	1-CORE LSZH	1-CORE LSZH	1-CORE LSZH	1-CORE LSZH
Outer Diameter	mm	1.6	1.8	2.0	2.4	3.0
Weight	kg/km	2.9	3.2	3.5	5.0	6.8
Max. Load (installation)	N	80	80	100	100	150
Max. Load (installed)	N	40	40	60	60	80
Min. Bend Radius (installation)	Times diameter	20	20	20	20	20
Min. Bend Radius (installed)	Times diameter	10	10	10	10	10
Fire Performance		LSZH	LSZH	LSZH	LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Storage Temp.	°C	-20~+70	-20~+70	-20~+70	-20~+70	-20~+70
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance	N/100mm	500	500	500	500	500

Applications

>> Patchcords
>> Pigtails
>> Internal inter-connections

Features

>> Choice of fibre types
>> Choice of cable outer diameters
>> High strength aramid yarn strength members for ease of handling
>> Robust 600µm tight buffered fibres for ease of termination
>> Easy stripping
>> LSZH jacket for internal use

Zip DupleZip Duplex Fibre Optic Patch Cable

LSZH Jacket
Tight Buffer Fibre
Aramid Yarn
Strength Member

OS2 9/125 OM1 62.5/125 OM2 50/125 OM3 50/125 OM4 50/125 2km

Netprom zip duplex fibre optic patch cable is constructed with two simplex units joined together with a central web. Ideal for use in office LAN connections, patchcords, pigtails and internal point-to-point links where frequent handling is likely (e.g. data cabinets, equipment rooms, user outlets). Utilising 600µm or 900µm buffered fibre, the cable is suitable for use with industry standard connectors and can be easily made into a patchcord.

Applications

>> Patchcords
>> Pigtails
>> Internal inter-connections

Features

>> Choice of fibre type
>> Choice of outer diameter
>> High strength aramid yarn strength members for ease of handling
>> Easy to strip
>> LSZH jacket

Ordering Information

PRODUCT DESCRIPTION	PART NO.	PRODUCT DESCRIPTION	PART NO.
OM1 62.5/125 µm Multimode		OM3 50/125 µm Multimode	
2-Core 2.0mm	OM1ZIPOR2MM6-C	2-Core 2.0mm	OM3ZIPAQ2MM6-C
2-Core 2.8mm	OM1ZIPOR-C	2-Core 2.8mm	OM3ZIPAQ-C
OM2 50/125 µm Multimode		OM4 50/125 µm Multimode	
2-Core 2.0mm	OM2ZIPOR2MM6-C	2-Core 2.0mm	OM4ZIPAQ2MM6-C
2-Core 2.8mm	OM2ZIPOR-C	2-Core 2.8mm	OM4ZIPAQ-C
OS1/OS2 /OS2 9/125 µm Singlemode			
2-Core 2.0mm	OS1/OS2 ZIPYE2MM6-C		
2-Core 2.8mm	OS1/OS2 ZIPYE-C		

Other diameters are available upon request.

Technical Specifications

DESCRIPTION		2-CORE LSZH	2-CORE LSZH	2-CORE LSZH	2-CORE LSZH
Outer Diameter	mm	1.6*3.3	1.8*3.7	2.0*4.1	2.8*5.7
Weight	kg/km	5.7	6.7	8.2	13.2
Max. Load (instal-lation)	N	160	160	200	300
Max. Load (installed)	N	80	80	100	160
Min. Bend Radius (installation)	Times diameter	20	20	20	20
Min. Bend Radius (installed)	Times diameter	10	10	10	10
Fire Performance		LSZH	LSZH	LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Storage Temp.	°C	-20~+70	-20~+70	-20~+70	-20~+70
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance	N/100mm	1000	1000	1000	1000

Flat Duplex Fibre Optic Patch Cable

LSZH Jacket
Simplex LSZH Jacket
Tight Buffer Fibre

Aramid Yarn Strength Member
Rip Cord

OS2 9/125 **OM1** 62.5/125 **OM2** 50/125 **OM3** 50/125 **OM4** 50/125 **2km**

Netprom flat duplex fibre optic patch cable is constructed with two simplex units held together with an overall LSZH jacket. Ideal for use in office LAN connections, patchcords, pigtails and internal point-to-point links where frequent handling is likely (e.g. data cabinets, equipment rooms, user outlets). Utilising 900μm buffered fibre, the cable unit is suitable for use with industry standard connectors and can be easily made into a patchcord.

Ordering Information

PRODUCT DESCRIPTION	PART NO.	PRODUCT DESCRIPTION	PART NO.
OM1 62.5/125 μm Multimode		OM3 50/125 μm Multimode	
2-Core 2.0mm	OM1FLATORANGE2-C	2-Core 2.0mm	OM3FLATAQUA2-C
2-Core 2.8mm	OM1FLATORANGE-C	2-Core 2.8mm	OM3FLATAQUA-C
OM2 50/125 μm Multimode		OM4 50/125 μm Multimode	
2-Core 2.0mm	OM2FLATORANGE2-C	2-Core 2.0mm	OM4FLATAQUA2-C
2-Core 2.8mm	OM2FLATORANGE-C	2-Core 2.8mm	OM4FLATAQUA-C
OS1/OS2 /OS2 9/125 μm Singlemode			
2-Core 2.0mm	OS1/OS2 FLATYEL - LOW2-C		
2-Core 2.8mm	OS1/OS2 FLATYEL - LOW-C		

Other diameters are available upon request.

Technical Specifications

DESCRIPTION		2-CORE LSZH	2-CORE LSZH
Outer Diameter	mm	3.0 x 5.0	3.8 x 6.6
Weight	kg/km	11	24
Max. Load (installation)	N	250	250
Max. Load (installed)	N	125	125
Min. Bend Radius (installation)	Times diameter	20	20
Min. Bend Radius (installed)	Times diameter	10	10
Fire Performance		LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+60
Storage Temp.	°C	-20~+70	-20~+70
Installation Temp.	°C	-20~+60	-20~+60
Crush Resistance	N/100mm	200	200

Applications
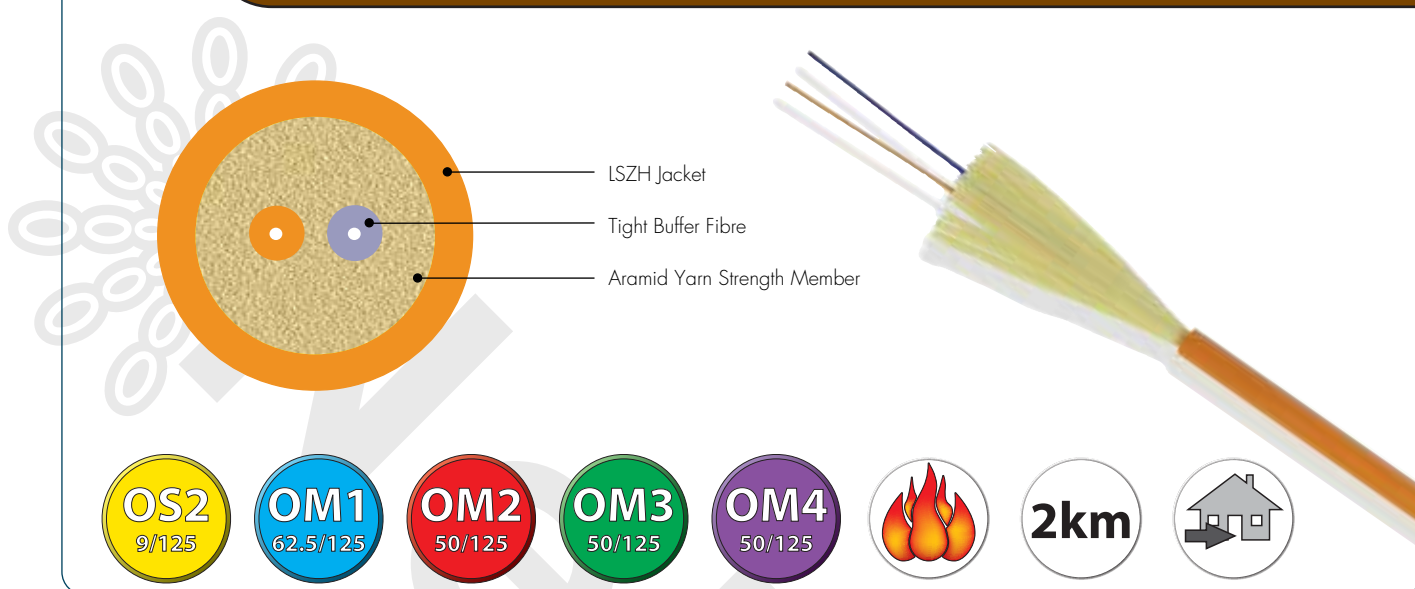
>> Patchcords
>> Pigtails
>> Internal inter-connections

Features

>> Choice of fibre type
>> Choice of outer diameter
>> High strength Aramid yarn strength members for ease of handling
>> Easy to strip
>> LSZH jacket
>> LSZH overall jacket

Fibre Optic Cable

Round Duplex Fibre Optic Patch Cable

LSZH Jacket

Tight Buffer Fibre

Aramid Yarn Strength Member

OS2 9/125 | **OM1** 62.5/125 | **OM2** 50/125 | **OM3** 50/125 | **OM4** 50/125 | 2km

Netprom round duplex fibre optic patch cable is constructed with two tight buffered fibres protected by aramid yarns and an LSZH jacket. Ideal for use in office LAN connections, patchcords, pigtails and internal point-to-point links where frequent handling is likely.

(e.g. data cabinets, equipment rooms, user outlets). Utilising 600µm or 900µm buffered fibre, the cable unit is suitable for use with industry standard connectors and can be easily made into a patchcord

Applications

>> Patchcords
>> Pigtails
>> Internal inter-connections

Features

>> Choice of fibre type
>> Choice of outer diameter
>> High strength aramid yarn strength members for ease of handling
>> Easy to strip
>> LSZH jacket

Ordering Information

PRODUCT DESCRIPTION	PART NO.	PRODUCT DESCRIPTION	PART NO.
OM1 62.5/125 µm Multimode		OM3 50/125 µm Multimode	
2-Core 5mm	OM1ROUNDOR-C	2-Core 5mm	OM3ROUNDAQ-C
OM2 50/125 µm Multimode		OM4 50/125 µm Multimode	
2-Core 5mm	OM2ROUNDOR-C	2-Core 5mm	OM4ROUNDAQ-C
OS1/OS2 /OS2 9/125µm Singlemode			
2-Core 5mm	OS1/OS2 ROUNDYE-C		

Other diameters are available upon request.

Technical Specifications

DESCRIPTION		2-CORE LSZH	2-CORE LSZH
Outer Diameter	mm	3.0	5.0
Weight	kg/km	8	20.9
Max. Load (installation)	N	190	160
Max. Load (installed)	N	80	80
Min. Bend Radius (installation)	Times diameter	20	20
Min. Bend Radius (installed)	Times diameter	10	10
Fire Performance		LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+60
Storage Temp.	°C	-20~+60	-20~+70
Installation Temp.	°C	-20~+60	-20~+60
Crush Resistance	N/100mm	1000	1000

Flat Ribbon Fibre Optic Patch Cable (4-12 Fibres)

LSZH Outer Jacket
Optical Fibre Ribbon
Aramid Yarn Strength Member

OS2 9/125 **OM1** 62.5/125 **OM2** 50/125 **OM3** 50/125 **OM4** 50/125 **2km**

Netprom flat ribbon fibre optic patch cable is constructed with 4 - 12 ribbonised optical fibres protected by soft aramid yarns and an LSZH jacket. Ideal for use in office LAN connections, patchcords and internal point-to-point links where frequent handling is likely (e.g. data cabinets, equipment rooms, user outlets).

Ordering Information

PRODUCT DESCRIPTION	PART NO.
OM1	OM1RIBBONOR**-C
OM2	OM2RIBBONOR**-C
OM3	OM3RIBBONAQ**-C
OM4	OM4RIBBONAQ**-C
OS1/OS2	OS1/OS2 RIBBONYE**-C

Where ** is the fibre count between 4 & 12

Technical Specifications

DESCRIPTION		4-CORE LSZH	6-CORE LSZH	8-CORE LSZH	12-CORE LSZH
Outer Diameter	mm	3.5*2.5	3.8*2.5	4.5*2.5	5.0*2.5
Weight	kg/km	14	15	17	19
Max. Load (installation)	N	200	200	200	200
Max. Load (installed)	N	80	80	80	80
Min. Bend Radius (installation)	Times diameter	35	35	35	35
Min. Bend Radius (installed)	Times diameter	25	25	25	25
Fire Performance		LSZH	LSZH	LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Storage Temp.	°C	-20~+70	-20~+70	-20~+70	-20~+70
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance	N/100mm	500	500	500	500

Applications

>> Internal inter-connections

Features

>> Choice of fibre type
>> Choice of outer diameter
>> High strength aramid yarn strength members for ease of handling
>> Easy to strip
>> LSZH jacket

Fibre Optic Cable

Tight Buffered Cables

Netprom tight buffered and breakout cables are manufactured using 900µm buffered fibres in a variety of constructions. Aramid or e-glass yarns are utilised to provide strength and to protect the fibres. The cables can be supplied with either Low Smoke Zero Halogen or PVC jackets, depending on the application.

Netprom tight buffered and breakout cables have a variety of applications. These include horizontal distribution, backbone and riser applications, patchcords, rack to rack links in equipment rooms and short run external inter-building links.

Tight Buffered Distribution Cable (4-24 Fibres)

- LSZH Jacket
- E-Glass Strength Member
- Multi Coloured Tight Buffer Fibre

OS2 9/125 **OM1** 62.5/125 **OM2** 50/125 **OM3** 50/125 **OM4** 50/125 **2km** **4km**

Netprom tight buffered internal distribution cables are constructed of 900μm buffered fibres surrounded by e-glass strength members jacketed in an LSZH outer jacket.

Ordering Information

PRODUCT DESCRIPTION	PART NO.
OM1	OM1TB**UBK-C
OM2	OM2TB**UBK-C
OM3	OM3TB**UBK-C
OM4	OM4TB**UBK-C
OS1/OS2	OS1TB**UBK-C

Where ** is the fibre count between 4 & 24

Applications

>> Internal cable for installation in trunking, under floor or ceiling spaces
>> Fibre backbones in riser and horizontal configurations

Features

>> Choice of fibre type
>> Colour coded fibres
>> High strength E-Glass rodent resistant yarn strength members for ease of handling
>> LSZH jacket
>> Easy to strip

Technical Specifications

DESCRIPTION		4-CORE LSZH	8-CORE LSZH	12-CORE LSZH	24-CORE LSZH
Outer Diameter	mm	4.8 ±0.3	5.8 ±0.3	6.5 ±0.3	7.5 ±0.3
Weight	kg/km	26	34	40	61
Max. Load (installation)	N	600	750	750	900
Max. Load (installed)	N	300	375	375	450
Min. Bend Radius (installation)	mm	96	116	130	150
Min. Bend Radius (installed)	mm	48	58	65	75
Fire Performance		LSZH	LSZH	LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Storage Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance	N/100mm	1000	1000	1000	1000

Fibre Optic Cable

Tight Buffered Distribution Cable

Multi-core (36-96 Fibres)

LSZH Outer Jacket

FRP & Jacket

Multi-core Buffered Cable

| OS2 9/125 | OM1 62.5/125 | OM2 50/125 | OM3 50/125 | OM4 50/125 | 🔥 | 2km | 4km | 🏠 |

36 to 96 fibre, stranded sub unit rodent resistant internal distribution cables consisting of 4 to 8, 12 fibre sub units and fillers when necessary. Each sub unit consists of 12, 900 µm tight buffered optical fibres with e-glass non-metallic strength members and LSZH jacket. The individually coloured 6mm outside diameter (OD) sub units are helically stranded around an FRP central strength member with polyester wrapping tape, ripcord and Low Smoke Zero Halogen (LSZH) final jacket.

Applications

>> Internal cable for horizontal distribution or riser applications

Features

>> Choice of fibre type
>> Colour coded fibres for easy identification
>> High strength aramid yarn strength members for ease of handling
>> Easy to use
>> Lightweight and compact
>> LSZH jacket

Ordering Information

PRODUCT DESCRIPTION	PART NO.
OM1	OM1TBM**UBK-C
OM2	OM2TBM**UBK-C
OM3	OM3TBM**UBK-C
OM4	OM4TBM**UBK-C
OS1/OS2	OS1/OS2 TBM**UBK-C

Where ** is the fibre count between 36 & 96

Technical Specifications

DESCRIPTION		36-CORE LSZH	48-CORE LSZH	72-CORE LSZH	96-CORE LSZH
Outer Diameter	mm	17.4 ±0.5	17.4 ±0.5	21.6 ±0.5	25.5 ±0.5
Weight	kg/km	237	237	397	571
Max. Load (installation)	N	2800	2800	4600	5000
Max. Load (installed)	N	1500	1500	2000	2200
Min. Bend Radius (installation)	mm	350	350	440	500
Min. Bend Radius (installed)	mm	175	175	220	250
Fire Performance		LSZH	LSZH	LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Storage Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance	N/100mm	1500	1500	1500	1500

Breakout Fibre Optic Cable (4-24 Fibres)

LSZH Outer Jacket

FRP CSM & Padding

Simplex Cable

| OS2 9/125 | OM1 62.5/125 | OM2 50/125 | OM3 50/125 | OM4 50/125 | | 2km | |
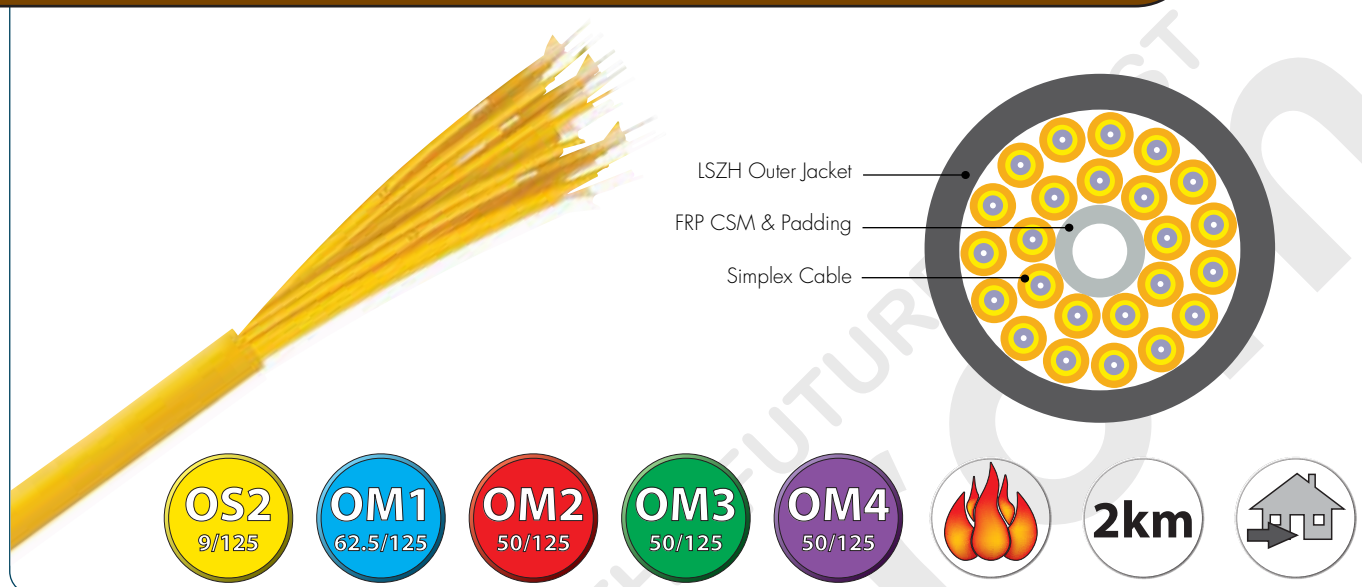
Netprom breakout cables are constructed of up to 24, 2mm simplex cables stranded around a central strength member.

Each simplex has its own aramid yarn strength member and jacket. These sub units are wrapped in a polyester tape and jacketed in LSZH.

Ordering Information

PRODUCT DESCRIPTION	PART NO.
OM1	OM1 BO**UOR-C
OM2	OM2 BO**UOR-C
OM3	OM3 BO**UAQ-C
OM4	OM4 BO**UAQ-C
OS1/OS2	OS1/OS2 BO**UYE-C

Where ** is the fibre count between 4 & 24
Other diameters are available upon request.

Technical Specifications

DESCRIPTION		4 CORE LSZH	6 CORE LSZH	8 CORE LSZH	12 CORE LSZH	24 CORE LSZH
Outer Diameter	mm	7.0	8.2	9.4	11.8	14.1
Weight	kg/km	46	63	86	139	159
Max. Load (installation)	N	500	1000	1100	1400	2300
Max. Load (installed)	N	270	600	700	800	1100
Min. Bend Radius (installation)	mm	140	160	190	240	280
Min. Bend Radius (installed)	mm	70	80	95	120	140
Fire Performance					LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Storage Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance	N/100mm	1000	1000	1000	1000	1000

Applications

>> *Internal breakout cable for horizontal distribution*

Features

>> *Choice of fibre type*
>> *Individual high strength aramid yarn strength members for ease of handling*
>> *Easy to use*
>> *Lightweight and compact*
>> *LSZH jacket*

Loose Tube Cables

Netprom loose tube cables are designed around 250µm fibres in either a single gel filled, or dry PBT loose tube, or several tubes stranded around a central strength member. The gel, where present, is to protect the fibres from water ingress. The central strength member can be either steel or FRP (Fibre Reinforced Plastic). The cables are available up to 144 fibres.

These cables can be supplied with armouring to protect against water ingress, rodents, insects and physical damage. They can be supplied with either PE (polyethylene) jackets for exterior applications or Low Smoke Zero Halogen jackets for internal/external use. Dry Loose Tube cables utilise super absorbent polymer waterblocking technology.

Netprom loose tube cables can be used internally for horizontal distribution or externally for short or long distance applications. They can be optimised for laying in ducts, direct underground burial, aerial applications or even underwater deployment.

Single Loose Tube Fibre Optic Cable (4-24 Fibres)

OS2 9/125   **OM1** 62.5/125   **OM2** 50/125   **OM3** 50/125   **OM4** 50/125   **4km**

2 to 24 fibre OM1, OM2, OM3, OM4 multimode or OS1/OS2 (ITU-T G.652D singlemode 250µm single loose tube external duct cables with e-glass strength members and polyethylene (PE) or Low Smoke Zero Halogen (LSZH) jacket.

The single loose tube cables consist of 2 to 24, 250µm optical fibres in a single gel filled loose tube with e-glass non metallic strength members and black PE or LSZH jacket with ripcord.

Ordering Information

PRODUCT DESCRIPTION	PART NO.
OM1 PE	OM1LT**PBK-C
OM1 LSZH	OM1LT**UBK-C
OM2 PE	OM2LT**PBK-C
OM2 LSZH	OM2LT**UBK-C
OM3 PE	OM3LT**PBK-C
OM3 LSZH	OM3LT**UBK-C
OM4 PE	OM4LT**PBK-C
OM4 LSZH	OM4LT**UBK-C
OS1/OS2 PE	OS1/OS2 LT**PBK-C
OS1/OS2 LSZH	OS1/OS2 LT**UBK-C

Where ** is the fibre count between 4 & 24

Technical Specifications

DESCRIPTION		2-12 CORE PE	14-24 CORE LSZH
Outer Diameter	mm	6.0 ±0.3	6.7 ±0.3
Weight	kg/km	40	47
Max. Load (installation)	N	1000	1000
Max. Load (installed)	N	500	500
Min. Bend Radius (installation)	Times diameter	20	20
Min. Bend Radius (installed)	Times diameter	10	10
Fire Performance		LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+60
Storage Temp.	°C	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60
Crush Resistance	N/100mm	1000	1000

Applications

>> Suitable for internal / external duct applications
>> Suitable for environments where rodent resistance is required
>> Ideal for intra building links in campus environments

Features

>> Choice of fibre types
>> Colour coded fibres
>> E-glass strength members for rodent resistance
>> Flame retardant LSZH jacket option for enhanced fire performance
>> Compact 250µm loose tube construction

Multi Loose Tube Fibre Optic Cable (24-144 Fibres)

PE or LSZH Jacket
Water Blocking Tape
e-glass Strength Member
Optical Fibre
Water Repellent Thixotropic Gel
Fibre Optic Loose Tube Cable
FRP Central Strength Member

OS2 9/125
OM1 62.5/125
OM2 50/125
OM3 50/125
OM4 50/125
2km
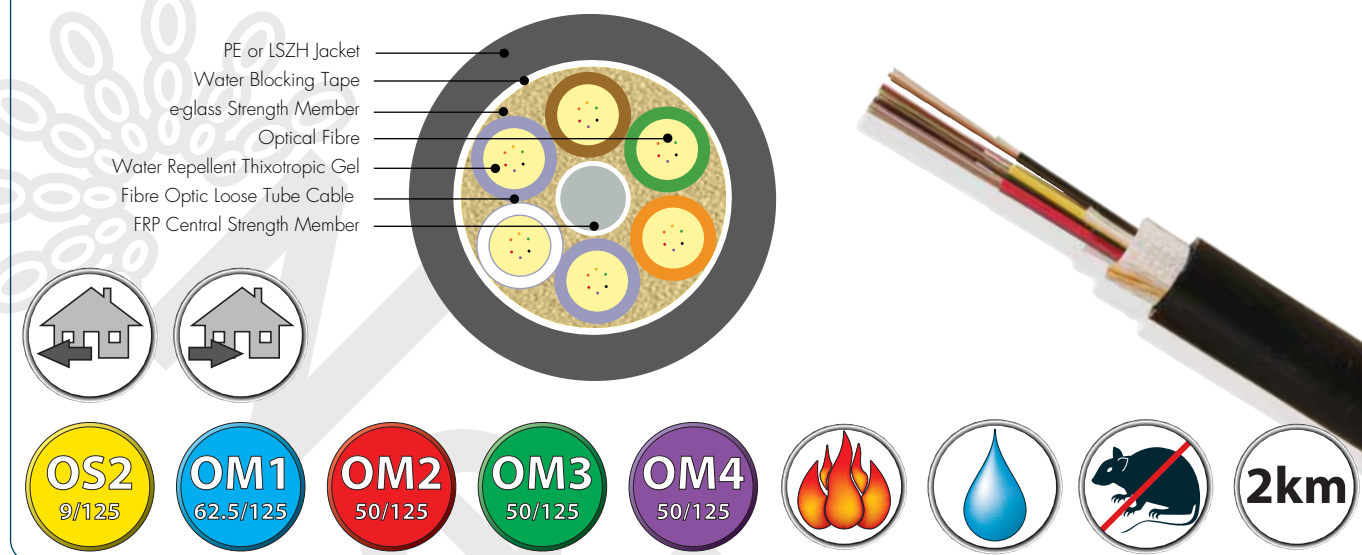
Up to 144 fibre, 5 to 12 element dry core OM1,OM2,OM3,OM4 multimode or OS1/OS2 (ITU-T G.652D) singlemode 250µm multi loose tube rodent resistant external duct cables with e-glass strength members, and high density polyethylene (HDPE) or Low Smoke Zero Halogen (LSZH) jacket.

The multi loose tube cable construction consists of up to 144, 250µm optical fibres in 12 fibre gel filled loose tubes with fillers where appropriate, SZ stranded around a fibre reinforced plastic (FRP) central strength member with waterswellable threads and waterswellable tape. Helically applied waterblocking e-glass non metallic strength members with ripcord and black high density polyethylene (HDPE) or Low Smoke Zero Halogen (LSZH) jacket.

Applications

>> Suitable for external duct applications
>> Suitable for applications where environmental resistance is required

Features

>> Choice of fibre types
>> Colour coded fibres
>> Compact 250µm loose tube construction
>> PE jacket for environmental protection and water permeation resistance
>> Flame retardant LSZH jacket option for enhanced fire performance

Ordering Information

PRODUCT DESCRIPTION	PART NO.
OM1 PE	OM1MLT**PBK-C
OM1 LSZH	OM1MLT**UBK-C
OM2 PE	OM2MLT**PBK-C
OM2 LSZH	OM2MLT**UBK-C
OM3 PE	OM3MLT**PBK-C
OM3 LSZH	OM3MLT**UBK-C
OM4 PE	OM4MLT**PBK-C
OM4 LSZH	OM4MLT**UBK-C
OS1/OS2 PE	OS1/OS2 MLT**PBK-C
OS1/OS2 LSZH	OS1/OS2 MLT**UBK-C

Technical Specifications

DESCRIPTION		24 TO 60-CORE	72-CORE	96-CORE	120-CORE	144-CORE
Outer Diameter	mm	10.5 ±0.4	11.1 ±0.4	12.6 ±0.4	14.1 ±0.4	15.6 ±0.4
Weight	kg/km	90	97	121	148	178
Max. Load (installation)	N	1500	1500	1500	1500	1500
Max. Load (installed)	N	600	600	600	600	600
Min. Bend Radius (installation)	mm	210	220	250	280	310
Min. Bend Radius (installed)	mm	105	110	125	140	155
Operating Temp.	°C	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70
Storage Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance	N/100mm	2000	2000	2000	2000	2000

Single Loose Tube STA Fibre Optic Cable (2-24 Fibres)

PE / LSZH Jacket
Corrugated Steel Tape
Water Barrier
Parallel Steel Wire Strength Member
Optical Fibre
Water Repellent Thixotropic Gel
Central Loose Tube

OS2 9/125   OM1 62.5/125   OM2 50/125   OM3 50/125   OM4 50/125   4km
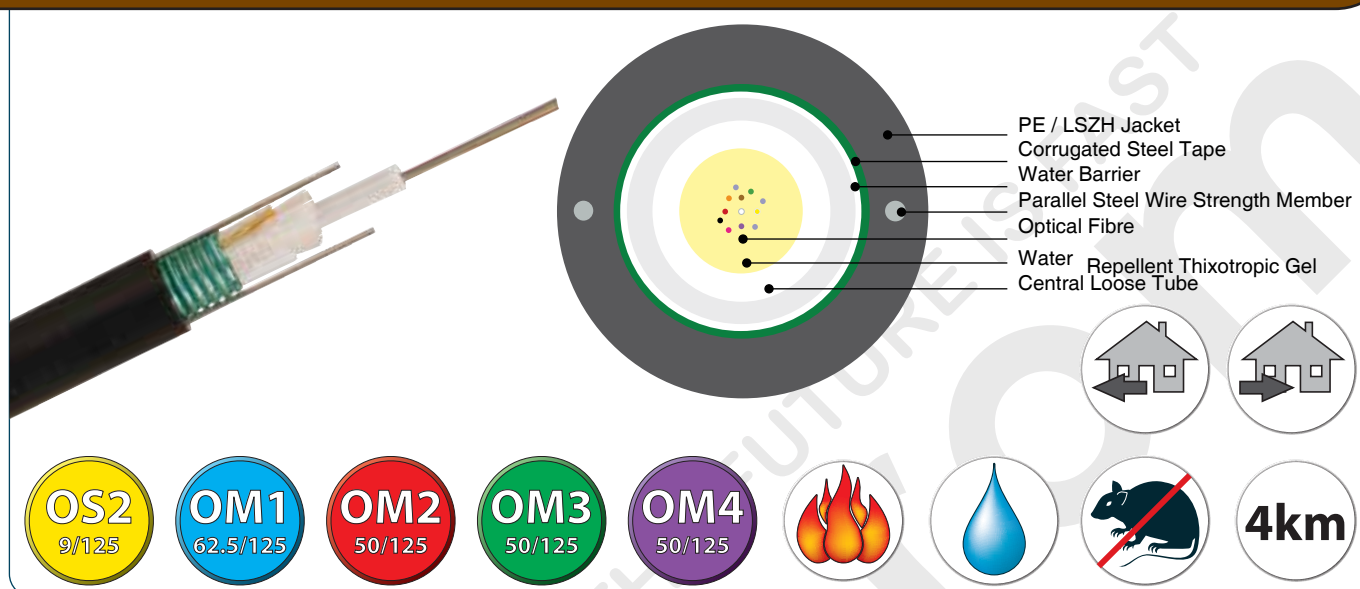
Netprom single loose tube corrugated steel tape armoured cables are constructed of 250µm fibres held in a gel filled central loose tube surrounded by water-blocking tape and corrugated, polyethylene laminated steel tape. The cable features two parallel steel wire strength members embedded in the PE / LSZH outer jacket.

Ordering Information

PRODUCT DESCRIPTION	PART NO.
OM1 PE	OM1LTSTA**PBK-C
OM1 LSZH	OM1LTSTA**UBK-C
OM2 PE	OM2 LTSTA**PBK-C
OM2 LSZH	OM2 LTSTA** UBK-C
OM3 PE	OM3 LTSTA**PBK-C
OM3 LSZH	OM3 LTSTA** UBK-C
OM4 PE	OM4 LTSTA**PBK-C
OM4 LSZH	OM4 LTSTA** UBK-C
OS1/OS2 PE	OS1/OS2 LTSTA**PBK-C
OS1/OS2 LSZH	OS1/OS2 LTSTA**UBK-C

Where ** is the fibre count between 2 & 24

Applications

>> Suitable for external applications in ducts, aerial applications or direct burial

Technical Specifications

DESCRIPTION		2-12 CORE	14-24 CORE
Outer Diameter	mm	10.0 ±0.3	10.7 ±0.3
Weight	kg/km	106	122
Max. Load (installation)	N	1500	1500
Max. Load (installed)	N	600	600
Min. Bend Radius (installation)	Times diameter	20	20
Min. Bend Radius (installed)	Times diameter	10	10
Fire Performance		LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+60
Storage Temp.	°C	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60
Crush Resistance	N/100mm	2000	2000

Features

>> Choice of fibre type
>> Colour coded fibres
>> High crush resistance
>> PE / LSZH jacket
>> High tensile strength

Multi Loose Tube CST Fibre Cable (24-144 Fibres)

PE / LSZH Outer Jacket
Corrugated Steel Tape
Binder
Loose Tube
FRP Strength Member
Water Locking Yarn & Tape
Water Repellent Thixotropic Gel
Optical Fibre

| OS2 9/125 | OM1 62.5/125 | OM2 50/125 | OM3 50/125 | OM4 50/125 |

2km   4km

The multi loose tube cable construction consists of up to up to 12 elements and a maximum of 144, 250 µm optical fibres in 12 fibre gel filled loose tubes with fillers where appropriate, SZ stranded around a jacketed Fibre Reinforced Plastic (FRP) central strength member with waterswellable threads and waterswellable tape.

Helically applied waterblocking e-glass non metallic strength members with ripcord. Corrugated Steel Tape (CST) armouring and black High Density Polyethylene (HDPE) or Low Smoke Zero Halogen (LSZH) jacket.

Applications

>> Suitable for external & aerial applications

Features

>> Choice of fibre type
>> Colour coded fibres
>> High water resistant
>> High crush resistant
>> PE / LSZH jacket

Ordering Information

PRODUCT DESCRIPTION	PART NO.
OM1 PE	OM1MLTSTA***PBK-C
OM1 LSZH	OM1MLTSTA***UBK-C
OM2 PE	OM2MLTSTA***PBK-C
OM2 LSZH	OM2MLTSTA***UBK-C
OM3 PE	OM3MLTSTA***PBK-C
OM3 LSZH	OM3MLTSTA***UBK-C
OM4 PE	OM4MLTSTA***PBK-C
OM4 LSZH	OM4MLTSTA***UBK-C
OS1/OS2 PE	OS1/OS2 MLTSTA***PBK-C
OS1/OS2 LSZH	OS1/OS2 MLTSTA***UBK-C

Where ** is the fibre count between 24 & 144

Technical Specifications

DESCRIPTION		24 TO 60-CORE	72-CORE	96-CORE	120-CORE	144-CORE
Outer Diameter	mm	12.0 ±0.4	12.6 ±0.4	14.1 ±0.4	15.6±0.4	17.1 ±0.4
Weight	kg/km	166	173	207	243	284
Max. Load (installation)	N	1500	1500	1500	1500	1500
Max. Load (installed)	N	600	600	600	600	600
Min. Bend Radius (installation)	mm	240	252	280	320	340
Min. Bend Radius (installed)	mm	120	126	140	160	170
Operating Temp.	°C	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70
Storage Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance	N/100mm	3000	3000	3000	3000	3000

Dry Single Loose Tube (2-24 Fibres)

NEW

- LSZH Jacket
- Water Blocking e-glass / Aramid Non Metallic Strength Member
- Water Swellable Thread
- 250µm Optical Fibre
- Waterblocked Dry Loose Tube

OS2 9/125 | **OM1** 62.5/125 | **OM2** 50/125 | **OM3** 50/125 | **OM4** 50/125 | **4km**
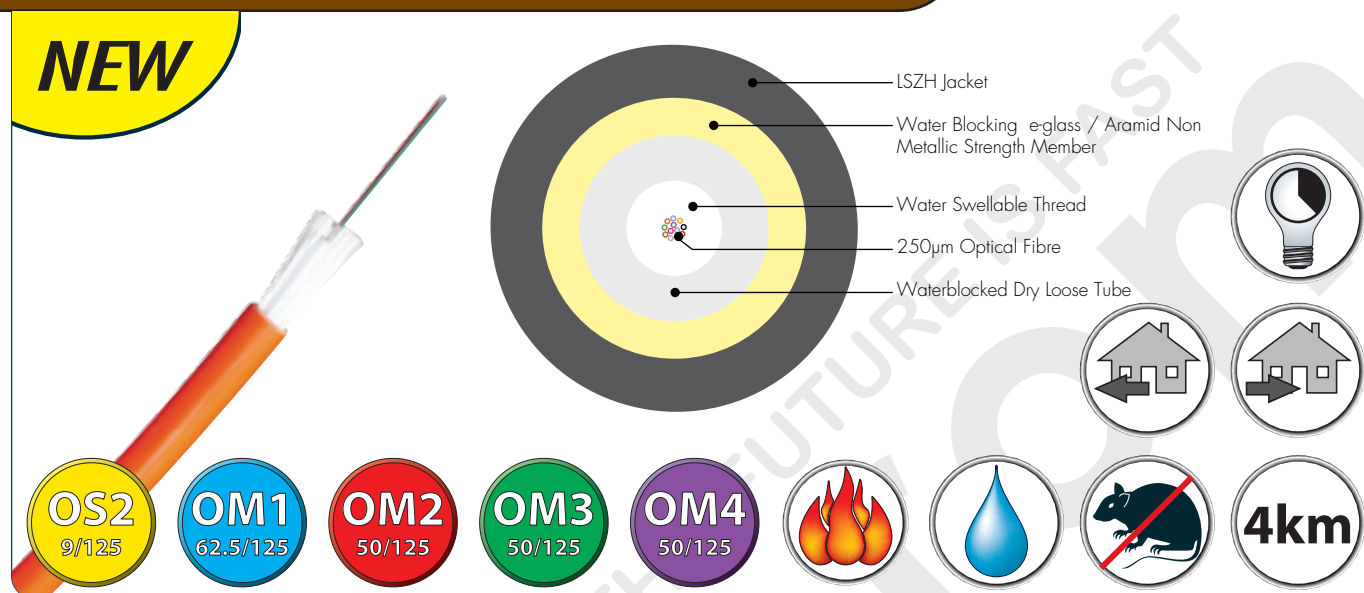
The indoor/outdoor single loose tube cables consist of 2 to 24, 250 µm individually coloured optical fibres in a single waterblocked dry loose tube with helically applied waterblocking rodent resistant e-glass or aramid non metallic strength members and Low Smoke Zero Halogen (LSZH) jacket.

Ordering Information

PRODUCT DESCRIPTION	PART NO.
OM1 250m Single dry loose tube RR ULSZH	OM1DT**OOR
OM1 250m Single dry loose tube aramid ULSZH	OM1DTA**OOR
OM2 250m Single dry loose tube RR ULSZH	OM2DT**OOR
OM2 250m Single dry loose tube aramid ULSZH	OM2DTA**OOR
OM3 250m Single dry loose tube RR ULSZH	OM3DT**OAQ
OM3 250m Single dry loose tube aramid ULSZH	OM3DTA**OAQ
OM4 250m Single dry loose tube RR ULSZH	OM4DT**OAQ
OM4 250m Single dry loose tube aramid ULSZH OM4DTA**OYE	OM4DTA**OAQ
OS1/OS2 ITUT G.652D 250 m Single dry loose tube RR ULSZH	OS1/OS2 DT**OYE
OS1/OS2 ITUT G.652D 250 m Single dry loose tube aramid ULSZH	OS1/OS2 DTA**OYE
G.657A 250m Single dry loose tube RR ULSZH	57ADT**OYE
G.657A 250m Single dry loose tube aramid ULSZH	57ADTA**OYE

Where ** is the fibre count between 2 & 24
Optional black jacket code is UBK

Technical Specifications

DESCRIPTION		2 to 24 CORE Aramid	2 to 24 CORE E-glass
Outer Diameter	mm	6.4 ±0.3	6.4 ±0.3
Weight	kg/km	48	50
Max. Load (installation)	N	1000	1000
Max. Load (installed)	N	500	500
Min. Bend Radius (installation)	mm	130	130
Min. Bend Radius (installed)	mm	65	65
Fire Performance		LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+70
Storage Temp.	°C	-20~+60	-20~+70
Installation Temp.	°C	-20~+60	-20~+70
Crush Resistance	N/100mm	2000	2000

Applications

>> Ideal for internal/external duct applications
>> Suitable for one or both end pre termination

Features

>> Colour coded fibres
>> Compact 250 µm dry loose tube construction
>> E-glass yarn for rodent resistance
>> LSZH jacket for optimised fire performance

Dry Multi Loose Tube (24-144 Fibres)

NEW

LSZH Jacket
Water Blocking e-glass / Aramid
Non Metallic Strength Members
Water Swellable Tape
Helical Core Binders
Water Swellable Tape
FRP Central Strength Member
Ripcord
12 Fibre Water Blocking Dry Loose Tube
250µm Optical Fibre

OS2 9/125
OM1 62.5/125
OM2 50/125
OM3 50/125
OM4 50/125

4km
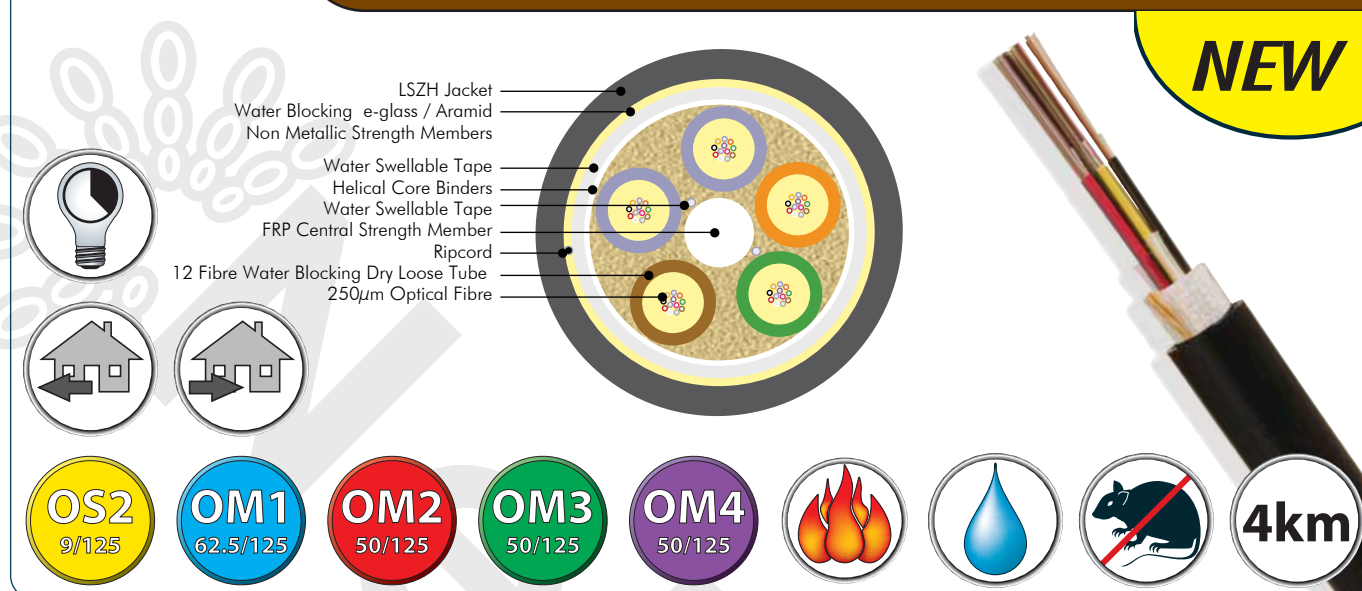
The up to 12 element internal/external multi loose tube cable construction consists of up to 144, 250 µm optical fibres in 12 fibre waterblocked dry loose tubes with fillers where appropriate. The tubes are SZ stranded around an LSZH jacketed fibre reinforced plastic (FRP) central strength member with waterswellable threads and waterswellable tape. Helically applied waterblocking E-glass or aramid non-metallic strength members with ripcord and LSZH jacket.

Applications

>> Ideal for internal/external duct applications
>> Suitable for one or both end pre-termination

Features

>> Colour coded fibres
>> Compact 250µm dry loose tube construction
>> E-glass yarn for rodent resistance
>> LSZH jacket option for optimised fire performance

Ordering Information

PRODUCT DESCRIPTION	PART NO.
OM1 E-Glass	OM1MDLTE***UOR
OM1 Aramid	OM1MDLTA***UOR
OM2 E-Glass	OM2MDLTE***UOR
OM2 Aramid	OM2MDLTA***UOR
OM3 E-Glass	OM3MDLTE***UAQ
OM3 Aramid	OM3MDLTA***UAQ
OM4 E-Glass	OM4MDLTE***UAQ
OM4 Aramid	OM4MDLTA***UAQ
OS1/OS2 E-Glass	OS1/OS2 MDLTE***UYE
OS1/OS2 Aramid	OS1/OS2 MDLTA***UYE

Where *** is the fibre count between 24 & 144

Technical Specifications

DESCRIPTION		24 to 60 CORE	72 CORE	96 CORE	144 CORE
Outer Diameter	mm	9.6 ±0.4	10.3 ±0.4	11.5 ±0.4	14.2 ±0.4
Weight	kg/km	96	104	127	190
Max. Load (installation)	N	1500	1500	1500	1500
Max. Load (installed)	N	600	600	600	600
Min. Bend Radius (installation)	mm	190	206	230	280
Min. Bend Radius (installed)	mm	95	103	115	140
Fire Performance		LSZH	LSZH	LSZH	LSZH
Operating Temp.	°C	-40~+70	-40~+70	-40~+70	-40~+70
Storage Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance	N/100mm	2000	2000	2000	2000

Dry Core Blowing Cable (12-144 Fibres)

NEW
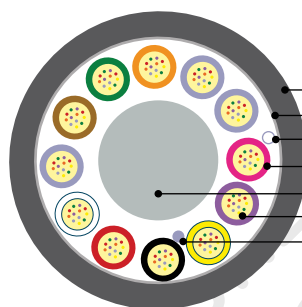
Polyethylene Jacket
Waterblocking Yarn Binders
Ripcord
12 Fibre Gel Filled Loose Tube
FRP Central Strength Member
250µm Optical Fibre
Waterswellable Thread

OS2 9/125

4km

6, 8 & 12 element cable designs, consisting of up to 144, 250µm ITU-T G.652D individually coloured optical fibres in 12 fibre polymeric gel filled loose tubes, SZ stranded around an FRP central strength member with waterswellable thread, waterswellable core binders and polyethylene or nylon (polyamide) final jacket with ripcord

Ordering Information

PART NO.
OS1/OS2 RDBD***PBK-C
OS1/OS2 RDBD***NOR-C

Where *** is the fibre count between 12 & 144

Technical Specifications

DESCRIPTION		6 Tube Elements	8 Tube Elements	12 Tube Elements
Max. fibre count	N	12 to 72	96	144
Outer Diameter	mm	5.6	6.4	8.2
Weight	kg/km	27	40	65
Tensile Rating (long & short term)	N	500/250	1200/600	1500/750
Crush Loads (long & short term)	N/100mm	800/400	800/400	800/400

Applications

>> For use in external compact ducts by air blowing

Features

>> Compact construction offering minimised cable diameter
>> Designed specifically for external air blown duct applications
>> All dielectric construction with nylon jacket option for reduced installation friction
>> FRP central strength member providing high tensile strength and kink resistance
>> SZ reverse oscillated stranding for easy installation
>> Black polyethylene or PA outer jacket for resistance to the environment
>> Waterswellable dry core construction for ease of installation

Multi Loose Tube Double Jacket Fibre Cable

(24-144 Fibres)

NEW

PE Outer Jacket
Corrugated Steel Tape
PE Inner Jacket
Central Strength Member
Loose Tube
Water Repellent Thixotropic Gel

| OS2 9/125 | OM1 62.5/125 | OM2 50/125 | OM3 50/125 | OM4 50/125 | | | 2km | 4km |

The multi loose tube cable construction consists of up to 12 elements and a maximum of 144, 250μm optical fibres in 12 fibre gel filled loose tubes with fillers where appropriate, SZ stranded around a fibre reinforced plastic (FRP) central strength member with waterswellable threads and waterswellable tape. Helically applied waterblocking e-glass non-metallic strength members with ripcord and PE inner jacket, corrugated steel tape (CST) armouring and black high density polyethylene (HDPE) final jacket with ripcord.

Applications

>> Suitable for external applications in ducts or for direct burial

Features

>> Choice of fibre type
>> Colour coded fibres
>> High water resistance
>> Two PE jackets

Ordering Information

PRODUCT DESCRIPTION	PART NO.
OM1	OM1LTDST***PBK-C
OM2	OM2LTDST***PBK-C
OM3	OM3LTDST***PBK-C
OM4	OM4LTDST***PBK-C
OS1/OS2	OS1/OS2 LTDST***PBK-C

Where ** is the fibre count between 24 & 144

Technical Specifications

DESCRIPTION		24 to 60-CORE	72-CORE	96-CORE	120-CORE	144-CORE
Outer Diameter	mm	14.0 ±0.5	14.6 ±0.5	16.1 ±0.5	17.6 ±0.5	19.1 ±0.5
Weight	kg/km	210	219	257	298	343
Max. Load (installation)	N	1500	1500	1500	1500	1500
Max. Load (installed)	N	600	600	600	600	600
Min. Bend Radius (installation)	mm	280	290	320	350	380
Min. Bend Radius (installed)	mm	140	145	160	175	190
Operating Temp.	°C	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70
Storage Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance		4000	4000	4000	4000	4000

Military Ruggedised Fibre Optic Cable

| OS2 9/125 | OM1 62.5/125 | OM2 50/125 | OM3 50/125 | OM4 50/125 |

2km **4km**
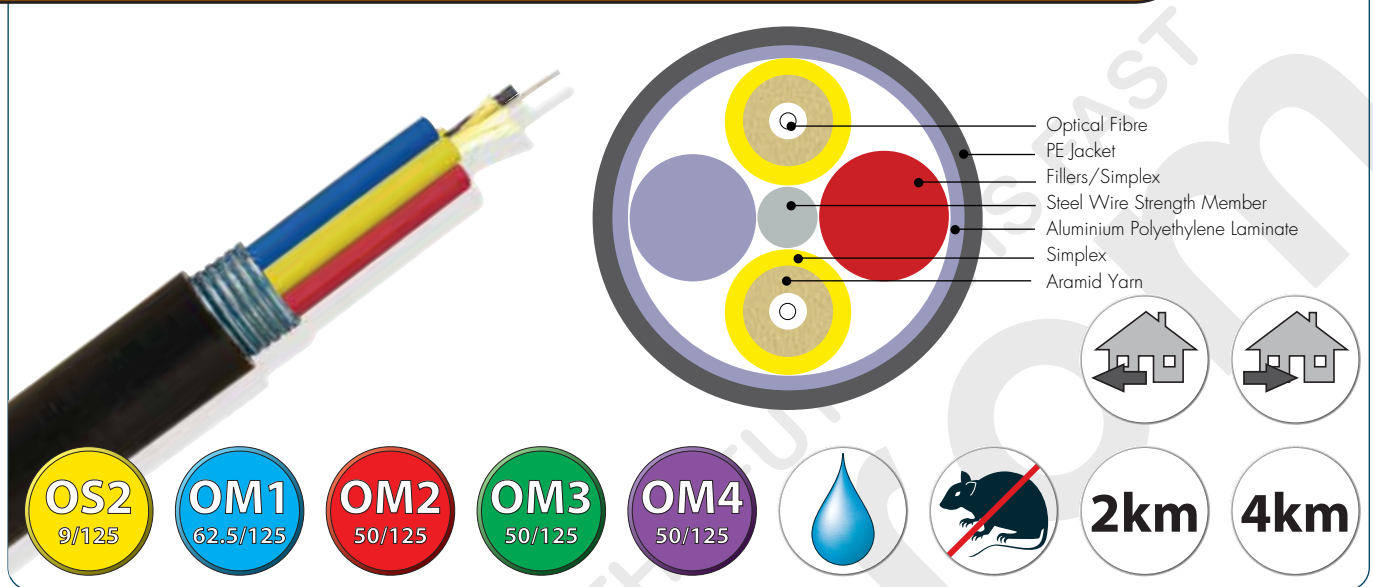
Netprom military ruggedised cables are constructed of 1-4 simplex cables, SZ stranded around steel wire strength member with aluminium polyethylene laminated (APL) tape as an additional water barrier and a PE outer jacket.

Labels: Optical Fibre, PE Jacket, Fillers/Simplex, Steel Wire Strength Member, Aluminium Polyethylene Laminate, Simplex, Aramid Yarn

Technical Specifications

DESCRIPTION		2-CORE PE	2-CORE PE	4-CORE PE	4-CORE PE
Outer Diameter	mm	9.8	11.8	9.8	11.8
Weight	kg/km	83	110	83	110
Max. Load (installation)	N	1000	1000	1000	1000
Max. Load (installed)	N	600	600	600	600
Min. Bend Radius (installation)	Times diameter	20	20	20	20
Min. Bend Radius (installed)	Times diameter	10	10	10	10
Operating Temp.	°C	-40~+70	-40~+70	-40~+70	-40~+60
Storage Temp.	°C	-40~+60	-40~+60	-40~+60	-40~+60
Installation Temp.	°C	-40~+70	-40~+70	-40~+70	-40~+70

Ordering information available upon request.

Applications

>> Suitable for industrial and military applications in tough environments

Features

>> Choice of fibre type
>> High tension resistance
>> High water resistance
>> Easy to use
>> PE outer jacket

Fibre Optic Cable

Aerial Cable, Direct Burial

And Duct Fibre Optic Cable

Netprom offers a range of aerial fibre optic cables including figure of 8 and ADSS (All Dielectric Self Supporting) cables. These products can be a very cost effective way to establish an infrastructure network as they avoid the need for expensive ducting to did trenches.

Netprom figure of 8 aerial cables can be used as a very cost effective aerial solution for spans usually up to 70 metres.

Netprom ADSS cables can be attached to power lines, hung between poles or between buildings in campus environments. These cables have no metal parts and their strength is provided by the use of aramid yarns and FRP (fibre reinforced plastic) central strength members. Netprom can offer ADSS cables with a span of up to 1200 metres.

The parameters covering aerial cables and their accessories are quite complex, involving issues such as length of span, temperature range, wind speed tolerance and other factors. Every project is likely to have differing demands. Further details can be provided on application. For this reason, the following pages are intended as a guide.

ADSS MLT Fibre Optic Cable (2-144 Fibres)

PE Outer Jacket
Aramid Yarn
Inner Jacket
Cable Core Jelly
Central Strength Member
Loose Tube
Water Repellent Thixotropic Gel
Fibre

OS2 9/125
OM1 62.5/125
OM2 50/125
OM3 50/125
OM4 50/125

2km **4km**
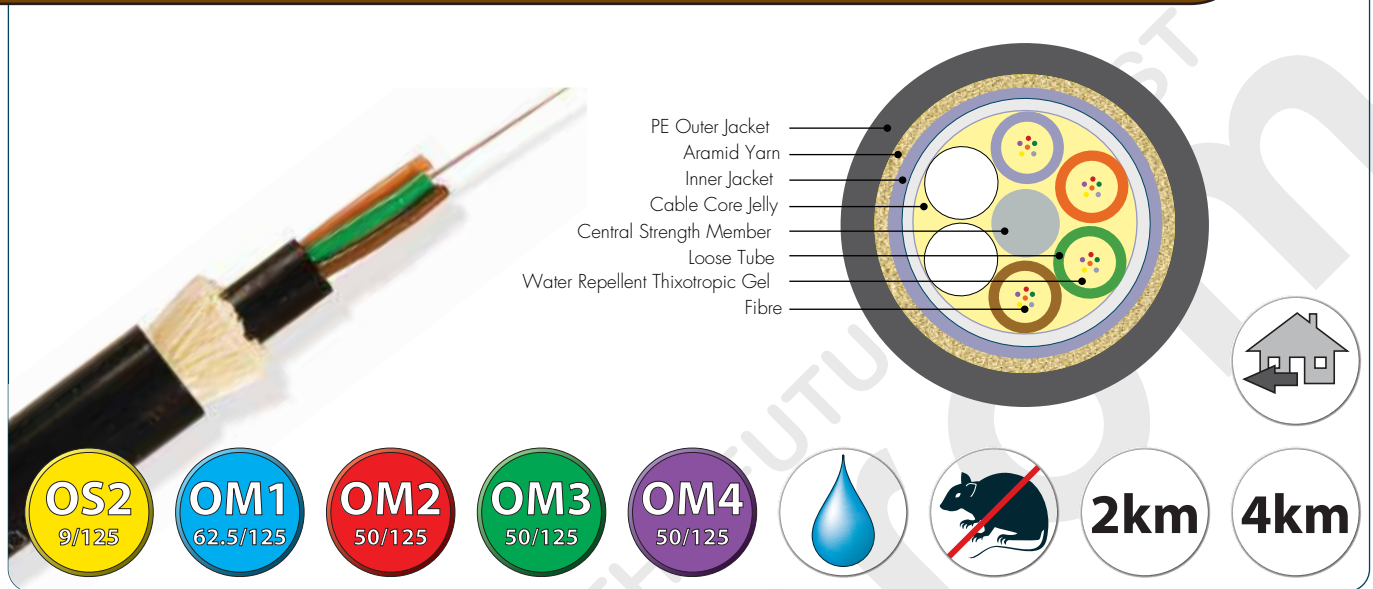
Netprom All Dielectric Self-Supporting Multi Loose Tube (MLT) cables are constructed of fibres inside gel filled central loose tubes wrapped around an FRP central strength member. This is encased in a PE inner jacket, aramid yarns and a PE outer jacket.,

Features

>> Lightweight, all-dielectric construction is ideal for use near electrical power lines and in areas of frequent lightning strikes
>> Round construction is ideal for minimum wind drag and ice build-up
>> High tensile strength
>> Wide operating temperature range: -40°C - +70°C

Applications

>>Suitable for installation on poles and on the power distribution network

DESCRIPTION			F3	F6	F8	F10	F12	F16	F18	F21	F24	F24	F31
Span		m	100	200	300	400	500	600	700	800	900	1000	1200
Outer Diameter		mm	11.6	12.0	12.3	12.5	12.8	13.8	14.2	14.5	14.8	15.1	15.5
Weight	PE Jacket	kg/km	124.2	131.1	136.3	141.4	146.5	165.9	172.6	179.2	185.8	192.3	202.1
Cross Sectional Area		mm²	105.68	112.70	117.90	123.07	128.19	150.21	157.40	164.55	171.65	178.70	189.20
Area Of Strength Member		mm²	5.67	10.20	13.62	17.02	20.43	26.10	30.64	35.18	39.72	44.26	51.07
RTS		kN	8.50	15.30	20.40	25.50	30.60	39.10	45.90	52.70	59.50	66.30	76.50
MOTS		kN	3.40	6.12	8.16	10.20	12.24	15.64	18.36	21.08	23.80	26.52	30.60
EDS		kN	2.13	3.83	5.10	6.38	7.65	9.78	11.48	13.18	14.88	16.58	19.13
Ultimate Exceptional Stress		kN	5.10	9.18	12.24	15.30	18.36	23.46	27.54	31.62	35.70	39.78	45.90
Modulus		KN/mm	8.44	12.52	15.27	17.79	20.11	21.71	24.02	26.13	28.07	29.86	32.31
Thermal Expansion Coefficient		10⁶/°C	9.32	5.28	3.78	2.80	2.12	1.42	0.99	0.67	0.41	0.20	-0.05
Crush Strength	Operation	N/10cm	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Installation	N/10cm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
Safety Factor			2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Min. Bend Radius	Operation	mm	174	180	185	188	192	207	213	218	222	227	233
	Installation	mm	290	300	308	313	320	345	355	363	370	378	388
Temperature	Installation	°C	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60
	Transport	°C	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70
	Operation	°C	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70
Sag (5mm inc load average 20°C)	PE Jacket	%	0.72	0.84	1.06	1.28	1.47	1.57	1.63	1.71	1.78	1.87	2.18

Ordering information available upon request.

Fibre Optic Cable

Aerial Cable Figure 8 Fibre Optic Cable (2-60 Fibers)

Outer Jacket
Tube Filling Compound
Messenger
Central Strength Member
Loose Tube
Optical Fibre
Interstitial Filling Compound
Fillers

OS2 9/125   **OM1** 62.5/125   **OM2** 50/125   **OM3** 50/125   **OM4** 50/125
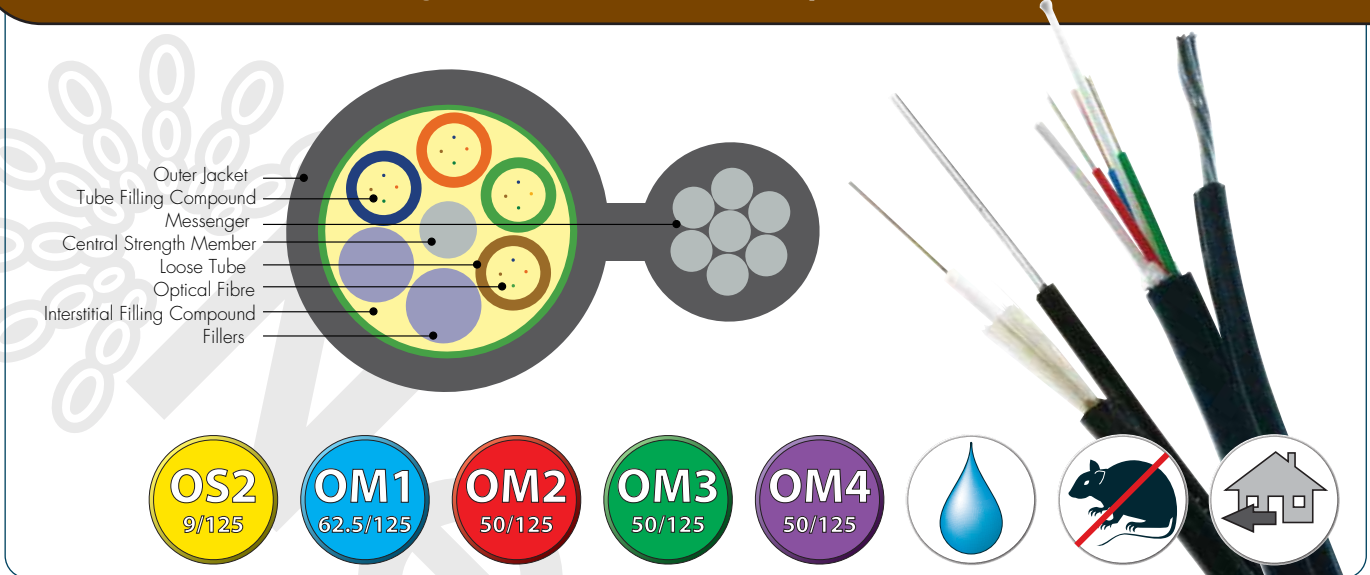
Features

>> Up to 144 fibres with single or multimode options available
>> The loose tube stranding technology make the fibres have good secondary excess length and allow the fibres free movement in the tube, which keeps the fibre stress free while the cable is subjected to longitudinal stress
>> Aluminium moisture barrier tape and corrugated steel tape options
>> Stranded wires as self supporting member providing excellent strain performance and convenient installation

Netprom figure of 8 aerial cable, for spans up to 70m, consists of 250μm optical fibres in gel filled loose tubes with interstitial gel. Water barrier aluminium tape or steel tape armouring options are available. Tensile strength is provided by a steel messenger wire. The cable jacket is black high density polyethylene (HDPE).

Applications

>> The figure of 8 cables are suitable for installation in aerial environments for long haul communication

DESCRIPTION		2-30	32-36	38-60	2-30	32-36	38-60	2-30	32-36	38-60	2-30	32-36	38-60
Stranded Wire		1x7-3.0	1x7-3.0	1x7-3.0	1.2x7-3.6	1.2x7-3.6	1.2x7-3.6	1.4x7-4.2	1.4x7-4.2	1.4x7-4.2	2.0x7-6.0	2.0x7-6.0	2.0x7-6.0
Cable Diameter	mm	10.1	10.8	11.6	10.1	10.8	11.6	10.1	10.8	11.6	10.1	10.8	11.6
Messenger Cable Diameter	mm	5.2	5.2	5.2	5.8	5.8	5.8	6.4	6.4	6.4	8.2	8.2	8.2
Cable Height	mm	18.3	19.0	19.9	18.9	19.6	20.5	19.5	20.2	21.1	21.3	22	22.9
Cable Weight	kg/km	127	147	152	130	150	155	132	152	158	140	160	165
Min. Bend Radius	Dynamic	10 times cable diameter										
	Static	20 times cable diameter										
Max. Running Tension	N	4950	4950	4950	7100	7100	7100	9700	9700	9700	19700	19700	19700
Safe Running Tension	N	2500	2500	2500	3500	3500	3500	4800	4800	4800	9800	9800	9800
Min. Breaking Tension	N	7990	7990	7990	10710	10710	10710	14580	14580	14580	27720	27720	27720
Max Crush Loading (N/100mm)	Short Term	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
	Long Term	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Ordering information available upon request.

Non-Metallic Direct Burial Cable (12 -144 Fibres)
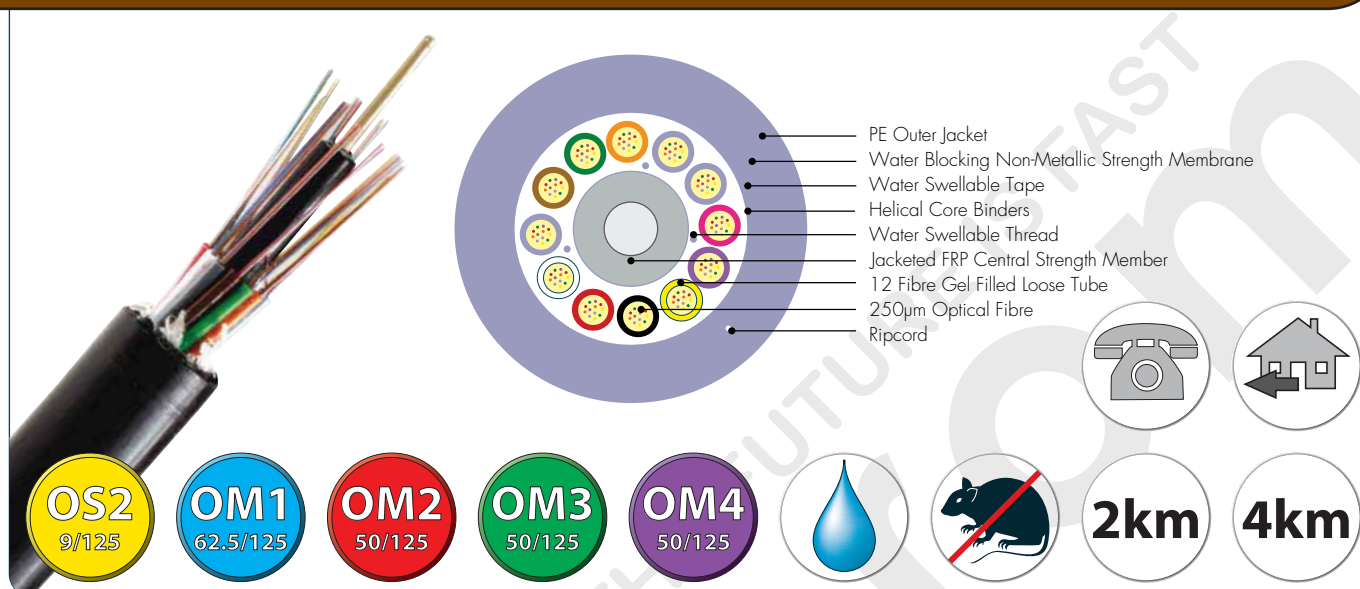
PE Outer Jacket
Water Blocking Non-Metallic Strength Membrane
Water Swellable Tape
Helical Core Binders
Water Swellable Thread
Jacketed FRP Central Strength Member
12 Fibre Gel Filled Loose Tube
250µm Optical Fibre
Ripcord

| OS2 9/125 | OM1 62.5/125 | OM2 50/125 | OM3 50/125 | OM4 50/125 |

2km **4km**

The Netprom 12 elements multi loose tube cable construction consists of up to 144, 250µm optical fibres in 12 fibre gel filled loose tubes with fillers where appropriate, SZ stranded around a fibre reinforced plastic (FRP) central strength member with waterswellable threads and waterswellable tape. Helically applied non metallic strength members with ripcord. corrugated steel tape (CST) armouring and black high density polyethylene (HDPE) jacket.

Features

>> Multi-layered stranded construction (up to 144 fibres)
>> Non-metallic construction
>> Particularly light, thin and robust cable
>> PE - jacket
>> Fibre relevant standards - ITU-T G. 652, G. 655, G. 656 or combination
>> Cable relevant standards - IEC 60793 and IEC 60794
>> Wrapping is made of water blocking tape
>> Dielectric central strength member

Applications

>> Suitable for external duct applications
>> Suitable for concrete channels
>> Can be pulled into duct system

Technical Specifications

DESCRIPTION		A-DQ(ZM) (SR)2Y 12	A-DQ(ZM) (SR)2Y 24	A-DQ(ZM) (SR)2Y 36	A-DQ(ZM) (SR)2Y 48	A-DQ(ZM) (SR)2Y 60	A-DQ(ZM) (SR)2Y 72	A-DQ(ZM) (SR)2Y 96	A-DQ(ZM) (SR)2Y 120	A-DQ(ZM) (SR)2Y 144
Maximum Fibre Count	Cores	12	24	36	48	60	72	96	120	144
Cable Diameter	mm	11.2	11.2	11.2	11.2	11.2	11.2	12.7	14.3	16.0
Cable Weight	kg/km	91	91	91	91	91	91	125	155	190
Max. Tensile Load during installation	N	2700	2700	2700	2700	2700	2700	2700	2700	2700
Fibres per loose tube		12	12	12	12	12	12	12	12	12
Number of loose buffer tube		1	2	3	4	5	6	8	10	12
Number of standing elements		6	6	6	6	6	6	8	10	12
Min. Bend Radius		20x cable outer diameter (during laying and installation) 15x cable outer diameter (installed)								
Installation Temperature Range	°C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C
Temp. Range Transportation And Operation	°C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C

Ordering information available upon request.

Fibre Optic Cable

Armoured Direct Burial Cable (12 -144 Fibres)

PE Outer Jacket
Corrugated CST
Water Blocking Non-Metallic Strength Members
FRP Central Strength Member
Water Swellable Thread
Ripcord
Water Swellable Tape
12 Fibre Gel Filled Loose Tube
250µm Optical Fibre
Helical Core Binding

OS2 9/125 **OM1** 62.5/125 **OM2** 50/125 **OM3** 50/125 **OM4** 50/125

2km **4km**
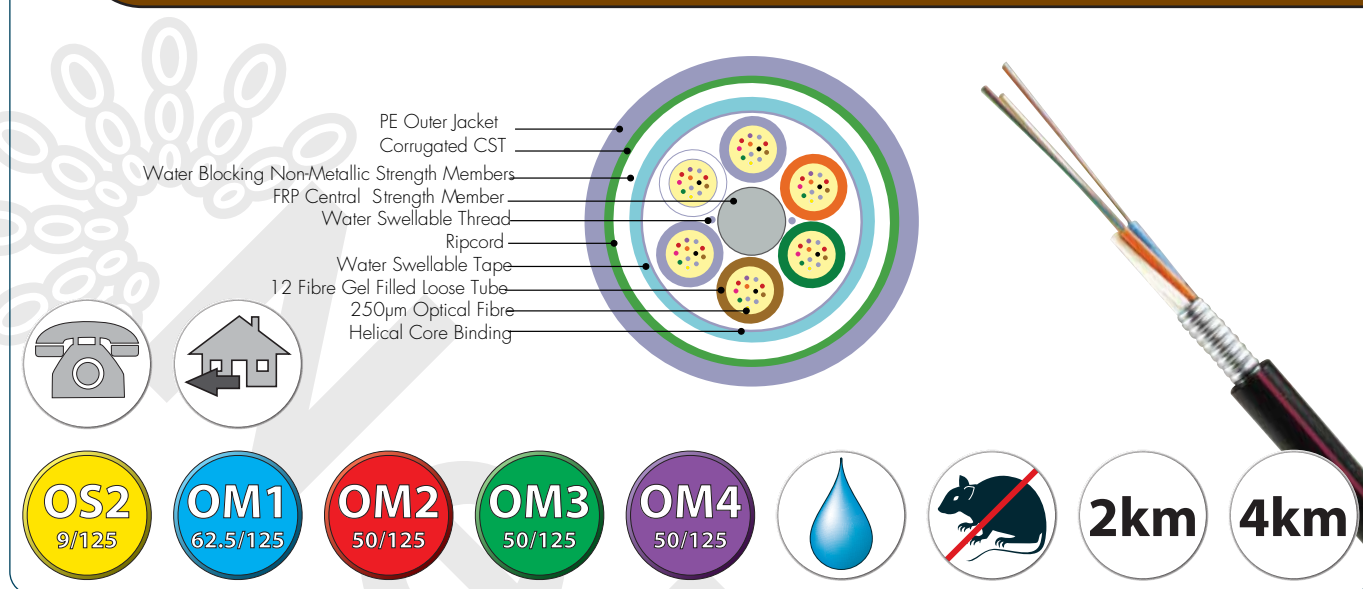
Features

>> Step layer stranded construction (up to 144 fibres)
>> Corrugated steel tape as protection against rodents and mechanical damage
>> Thin and robust cable
>> Dry core construction
>> PE- Jacket
>> Wrapped in water blocking tape
>> Filled loose tube
>> Fibre relevant standards ITU-T G.652, G. 655, G. 656 or a combination
>> Cable relevant standards IEC 60793 and IEC 60794

The Netprom multi element multi loose tube cable construction consists of up to 144, 250µm optical fibres in 12 fibre gel filled loose tubes with fillers where appropriate, SZ stranded around a fibre reinforced plastic (FRP) central strength member with waterswellable threads and waterswellable tape. Helically applied non-metallic strength members with ripcord. Corrugated steel tape (CST) armouring and black high density polyethylene (HDPE) jacket.

Applications

>> Direct burial
>> Used in application with high mechanical loads

DESCRIPTION		A-DQ(ZM) (SR)2Y 12	A-DQ(ZM) (SR)2Y 24	A-DQ(ZM) (SR)2Y 36	A-DQ(ZM) (SR)2Y 48	A-DQ(ZM) (SR)2Y 60	A-DQ(ZM) (SR)2Y 72	A-DQ(ZM) (SR)2Y 96	A-DQ(ZM) (SR)2Y 120	A-DQ(ZM) (SR)2Y 144
Maximum Fibre Count	Cores	12	24	36	48	60	72	96	120	144
Cable Diameter	mm	12.3	12.3	12.3	12.3	12.3	12.3	13.8	15.4	17.1
Cable Weight	kg/km	91	91	91	91	91	91	125	155	190
Max Tensile Load during installation	N	2700	2700	2700	2700	2700	2700	2700	2700	2700
Fibres per loose tube		12	12	12	12	12	12	12	12	12
Number of loose buffer tube		1	2	3	4	5	6	8	10	12
Number of standing elements		6	6	6	6	6	6	8	10	12
Min. Bend Radius		20 x cable outer diameter (during laying and installation) 17.5 x cable outer diameter (installed)								
Installation Temperature Range	°C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C
Operation Temperature Range	°C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C
Transportation Temperature Range	°C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C

Ordering information available upon request.

Double Jacket Direct Burial Cable (12 -144 Fibres)
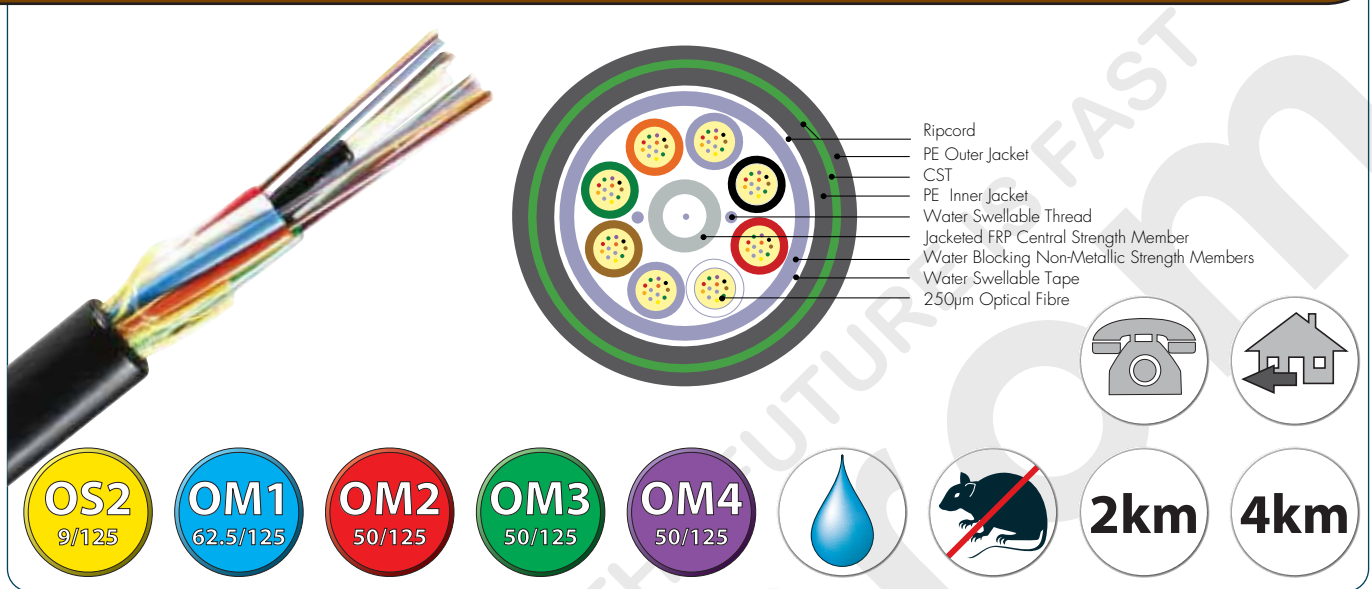
Ripcord
PE Outer Jacket
CST
PE Inner Jacket
Water Swellable Thread
Jacketed FRP Central Strength Member
Water Blocking Non-Metallic Strength Members
Water Swellable Tape
250µm Optical Fibre

OS2 9/125 | OM1 62.5/125 | OM2 50/125 | OM3 50/125 | OM4 50/125

2km | 4km

The Netprom 12 elements multi loose tube cable construction consists of up to 144, 250µm optical fibres in 12 fibre gel filled loose tubes with fillers where appropriate, SZ stranded around a fibre reinforced plastic (FRP) central strength member with waterswellable threads and waterswellable tape. Helically applied non metallic strength members with ripcord. corrugated steel tape (CST) armouring and black high density polyethylene (HDPE) jacket.

Features

>> Single layer stranded construction (up to 144 fibres)
>> Corrugated steel tape as protection against rodents and mechanical damage
>> Particularly robust cable, filled loose tube
>> Inner and outer jacket are made of PE- Jacket
>> Wrapped in water blocking tape
>> Core- stranded loose tube, SZ technique
>> Tensile strength elements - dielectric central strength member
>> Fibre relevant standards ITU-T G.652, G. 655, G. 656 or a combination
>> Cable relevant standards IEC 60793 and IEC 60794

Applications

>> Direct burial
>> Used in application with particularly high mechanical loads

Technical Specifications

DESCRIPTION		A-DQ(ZM) (SR)2Y 12	A-DQ(ZM) (SR)2Y 24	A-DQ(ZM) (SR)2Y 36	A-DQ(ZM) (SR)2Y 48	A-DQ(ZM) (SR)2Y 60	A-DQ(ZM) (SR)2Y 72	A-DQ(ZM) (SR)2Y 96	A-DQ(ZM) (SR)2Y 120	A-DQ(ZM) (SR)2Y 144
Maximum Fibre Count	Cores	12	24	36	48	60	72	96	120	144
Cable Diameter	mm	14.7	14.7	14.7	14.7	14.7	14.7	16.2	17.8	19.5
Cable Weight	kg/km	195	195	195	195	195	195	235	280	325
Max.Tensile Load during installation	N	2700	2700	2700	2700	2700	2700	2700	2700	2700
Fibres per loose tube		12	12	12	12	12	12	12	12	12
Number of loose buffer tube		1	2	3	4	5	6	8	10	12
Number of stranding elements		6	6	6	6	6	6	8	10	12
Min. Bend Radius		20 x cable outer diameter (during laying and installation) 17.5 x cable outer diameter (installed)								
Installation Temperature Range	°C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C
Operation Temperature Range	°C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C
Transportation Temperature Range	°C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C

Ordering information available upon request.

Patch Panels

2U Fixed Patch Panels

This innovative and robust 2U fixed patch panel has been designed to accept up to 96 fibres.

The ability to use a full array of adaptor types offers a flexible solution to the end user; enabling them to incorporate a multifunctional panel, which allows easy access during installation or re-work, with no disturbance to the existing cable or fibres. In addition to an array of adaptors the panel also offers multiple cable entry solutions, up to 8 standard entry points for loose tube, tight buffered, pre-terminated and steel tape armoured cable.

>> Up to 96 fibres in 2U
>> Multiple adaptor options available
>> 48 adaptor positions
>> Individually labelled ports
>> Reach / SVHC
>> Fits standard 19"

Technical Drawings

Front View

Top View

Standard Mounting

Rear View

Knockouts

Ø 20
Ø 25
Ø 20
Ø 25

Mounting Adjustment

Recessed Mounting

ST / FC Adaptor
SC Simplex Adaptor
SC duplex Adaptor

Connector Mounting

Technical Specifications

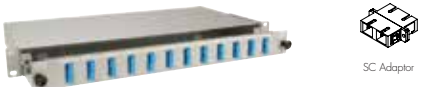| 2U Fixed Patch Panel	
Height	2U (88.8mm)
Width	480mm
Depth	300mm
Net weight	3.7 kg
Packaged weight	3.9 kg
Packaged dimensions	530mm W X 110mm H x 330mm D
IP rating	IP20
Suitable for Adaptor type	ST, FC, SC, SC duplex, LC duplex, E2000
Cable Entry 20mm	4
Cable entry 25mm	4
Mounting Adjustment range	80mm
Material	Cold-rolled steel
Material thickness	1.2mm
Material coating	Powder coating
Colour	RAL 9004
Operating temperature	-40°C to +60°C
Designed in accordance with	TIA/EIA 568.C, ISO/IEC 11801, EN50173, IEC60304, IEC61754, EN297-1
Compliant to	Reach / SVHC
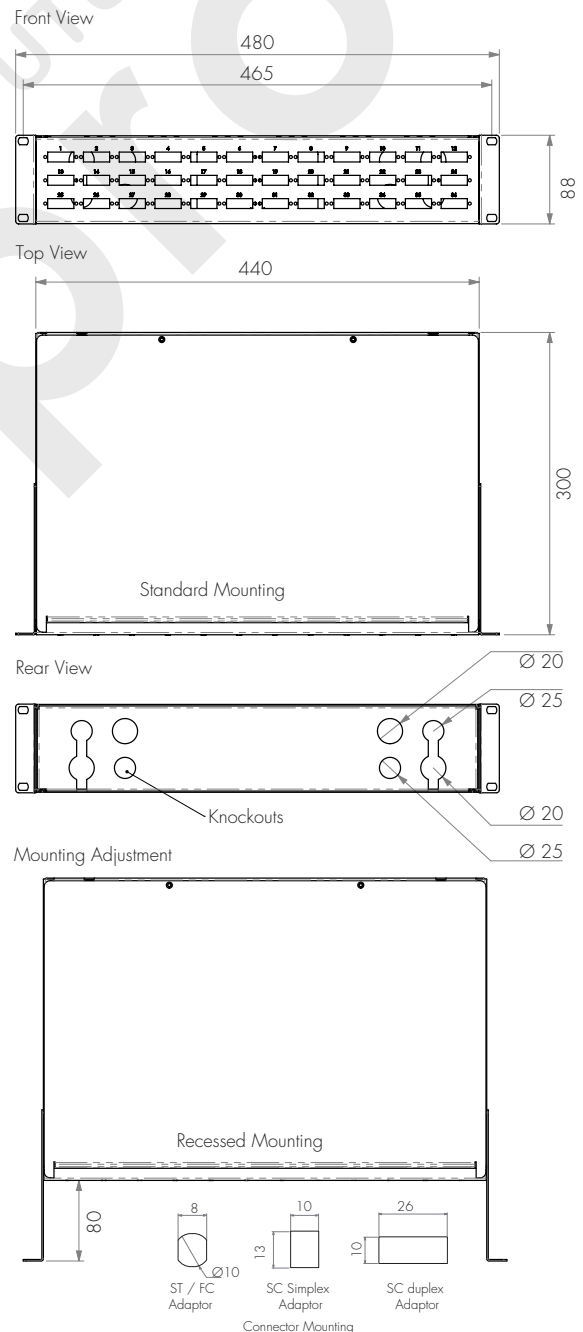
Patch Panels

F20 48 Position SC/LC/E2000 2U Fixed Patch Panel - Black

2U Black Fixed Patch Panel suitable for up to 24 SC, LC or E2000 Adaptors. The panel can be recessed for improved fibre management. Allows the installation of up to 96 fibres.

	Part No.		Part No.
SC Simplex Multimode	F20SCM48	E2000 APC Singlemode	F20E2A48
SC Simplex Singlemode	F20SCS48	LC Duplex Multimode Beige	F20LCM48
SC APC Simplex Singlemode	F20SCA48	LC Duplex Multimode Erika Violet	F20LCV48
E2000 Multimode	F20E2M48	LC Duplex Singlemode	F20LCS48
E2000 Singlemode	F20E2S48	LC APC Duplex Singlemode	F20LCA48
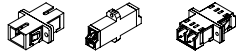
SC Adaptor   E2000 Adaptor   LC Duplex Adaptor

F21

F21 36 Position SC Duplex 2U Fixed Patch Panel - Black

2U Black Fixed Patch Panel suitable for up to 36 SC Duplex Adaptors. The panel can be recessed for improved fibre management. Allows the installation of up to 72 fibres.

	Part No.		Part No.
SC Duplex Singlemode	F21SCS36	SC Duplex Multimode Erika Violet	F21SCV36
SC Duplex Multimode	F21SCM36	SC APC Duplex Singlemode	F21SCA36

SC Adaptor

F22

F22 48 Position ST/FC 2U Fixed Patch Panel - Black

2U Black Fixed Patch Panel suitable for up to 36 SC Duplex Adaptors. The panel can be recessed for improved fibre management. Allows the installation of up to 72 fibres.

	Part No.		Part No.
ST Singlemode	F22STS48	FC Multimode	F22FCM48
ST Multimode	F22STM48	FC APC Singlemode	F22FCA48
FC Singlemode	F22FCS48		

ST Adaptor   FC Adaptor

1U Sliding Patch Panels

Our sliding patch panel system, in its basic form, is supplied with unloaded panels, ready for you to install your adaptor of choice. The panel can also be pre-loaded complete with your choice of adaptor and a simple splice management kit, or preloaded with pigtails. The tray is locked in place by two, simple to operate, plastic latches. When fully extended the tray is designed to lower to 45°, or by moving the tray to the side, it will lock to a shallower 10°. This provides the perfect working platform for simple installation and provides easy maintenance and access even after the panel has been installed in the rack.

>> Recessed panel option
>> Recessed adaptors provide improved fibre management
>> No exposed screws
>> Screen printed for easy labelling
>> 45° working angle
>> Rear cable entry options
>> Panel numbers and rack number identification labels
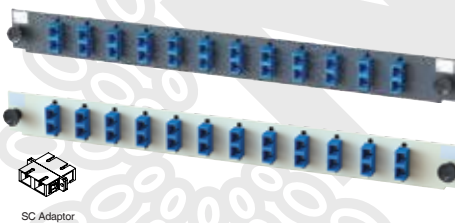>> High quality finish, no sharp edges

Technical Drawings
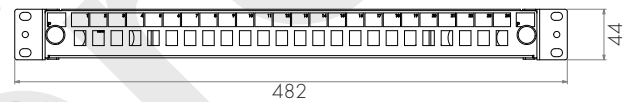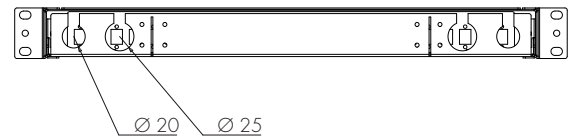
All dimensions in mm

Front View

482

44

Top View

205

Rear View

Ø 20   Ø 25

Mounting Adjustment

50

Connector Mounting

8   Ø10
ST / FC Adaptor

13   10
SC Simplex Adaptor

10   26
SC duplex Adaptor
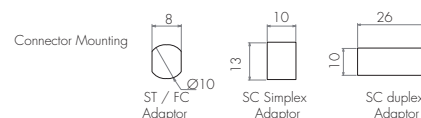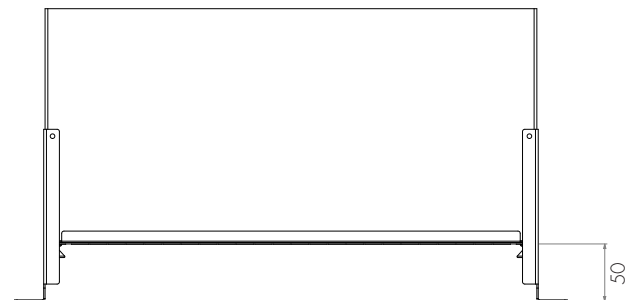
Technical Specifications

Sliding Patch Panels	
Height	1U (44.4mm)
Width	483mm ± 1mm
Depth	205mm
Net Weight	2.4kg
Packaged Weight	2.7kg
Package Dimensions	530mm W x 55mm H x 260mm D
IP Rating	IP20
Suitable for adaptor type	SC Simplex (24 port), ST / FC (16 / 24 port), SC duplex (12 / 24 port), E2000 (24 port), LC duplex (24 port)
Mounting adjustment range	50mm
Cable entry 20mm	2
Cable entry 25mm	2
Material	Cold Rolled Steel
Material thickness	1.2mm
Material coating	Electrostatic Powder Coating
Colour	Black RAL 9004 Grey RAL 7035
Operating Temperature	-40°C to +60°C
Compliant to	Reach / SVHC
Designed in accordance with	TIA/EIA 568.C, ISO/IEC 11801, EN 50173, IEC 60304, IEC 61754, EN 297-1

Patch Panels

S00 **S14**
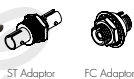
S00 16 Position ST/FC 1U Sliding Patch Panel - Black

S14 16 Position ST/FC 1U Sliding Patch Panel - Grey

1U Black Sliding Patch Panel suitable for up to 16 ST or FC Adaptors. The panel can be recessed for improved fibre management and the tray lowered to a working angle of 45°. Allows the installation of up to 16 fibres.

	Part No.		Part No.
ST Singlemode	S00STS16	FC Multimode	S00FCM16
ST Multimode	S00STM16	FC APC Singlemode	S00FCA16
FC Singlemode	S00FCS16		

ST Adaptor   FC Adaptor

S01 **S02**
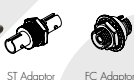
S01 24 Position ST/FC 1U Sliding Patch Panel - Black

S02 24 Position ST/FC 1U Sliding Patch Panel - Grey

1U Black Sliding Patch Panel suitable for up to 24 ST or FC Adaptors. The panel can be recessed for improved fibre management and the tray lowered to a working angle of 45°. Allows the installation of up to 24 fibres.

	Part No.		Part No.
ST Singlemode	S01STS24	FC Multimode	S01FCM24
ST Multimode	S01STM24	FC APC Singlemode	S01FCA24
FC Singlemode	S01FCS24		

ST Adaptor   FC Adaptor

S03 **S04**

S03 24 Position SC/LC/E2000 1U Sliding Patch Panel - Black

S04 24 Position SC/LC/E2000 1U Sliding Patch Panel - Grey

1U Black Sliding Patch Panel suitable for up to 24 SC, LC or E2000 Adaptors. The panel can be recessed for improved fibre management and the tray lowered to a working angle of 45°. Allows the installation of up to 48 fibres.

	Part No.		Part No.
SC Simplex Multimode	S03SCM24	E2000 APC Singlemode	S03E2A24
SC Simplex Singlemode	S03SCS24	LC Duplex Multimode Beige	S03LCM24
SC APC Simplex Singlemode	S03SCA24	LC Duplex Multimode Erika Violet	S03LCV24
E2000 Multimode	S03E2M24	LC Duplex Singlemode	S03LCS24
E2000 Singlemode	S03E2S24	LC APC Duplex Singlemode	S03LCA24

SC Adaptor   E2000 Adaptor   LC Duplex Adaptor

S07 **S08**

S07 12 Position SC Duplex 1U Sliding Patch Panel - Black

S08 12 Position SC Duplex 1U Sliding Patch Panel - Grey

1U Black Sliding Patch Panel suitable for up to 12 SC Duplex Adaptors. The panel can be recessed for improved fibre management and the tray lowered to a working angle of 45°. Allows the installation of up to 24 fibres.

	Part No.		Part No.
SC Duplex Singlemode	S07SCS12	SC Duplex Multimode Erika Violet	S07SCV12
SC Duplex Multimode	S07SCM12	SC APC Duplex Singlemode	S07SCA12

SC Adaptor

S09 **S10**
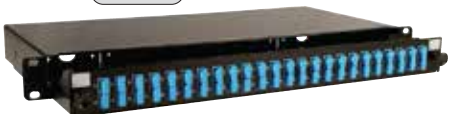
S09 24 Position SC Duplex 1U Sliding Patch Panel - Black

S10 24 Position SC Duplex 1U Sliding Patch Panel - Grey

1U Black Sliding Patch Panel suitable for up to 24 SC Duplex Adaptors. The panel can be recessed for improved fibre management and the tray lowered to a working angle of 45°. Allows the installation of up to 48 fibres.

	Part No.		Part No.
SC Duplex Singlemode	S09SCS24	SC Duplex Multimode Erika Violet	S09SCV24
SC Duplex Multimode	S09SCM24	SC APC Duplex Singlemode	S09SCA24

SC Adaptor

Fibre Optic Solutions

1U Sliding Patch Panel Chassi

With Removable Front Panels

1U Empty chassis panel for optional removable front panels - Black

This removable front-panel chassis is a 19 inch, 1U, sliding panel in two parts; a sliding chassis and a separate front panel, that receives the optical adaptors. Its primary advantage is the flexibility its modular composition gives, allowing you to maintain a separate stock of chassis and a variety of panels, only attaching a suitable front panel when needed.

>> Recessed panel option
>> No exposed screws
>> Screen printed for easy labelling
>> Rear cable entry options
>> Panel numbers and rack number identification labels
>> High quality finish, no sharp edges

Technical Specifications

Sliding Patch Panel Chassis for Removable Front Panels	
Height	1U (44.4mm)
Width	482mm ± 1mm
Depth	205mm
Net weight	2.1kg
Packaged weight	2.5kg
Packaged Dimensions	530mm x 55mm x 260mm
IP Rating	IP20
Suitable for adaptor type	All
Mounting adjustment range	50mm
Cable entry 20mm	2
Cable entry 25mm	2
Material	Cold Rolled Steel
Material thickness	1.2mm
Material coating	Electrostatic Powder Coating
Colour	Black RAL 9004 Grey RAL 7035
Operating Temperature	-40°C to +60°C
Compliant to	Reach / SVHC
Designed in accordance with	TIA/EIA 568.C, ISO/IEC 11801, EN 50173, IEC 60304, IEC 61754, EN 297-1

Description	Part No.
1U Empty chassis panel - Black RAL9004	SPANEL
1U Empty chassis panel - Grey RAL7035	SPANEL/G
1U Empty chassis panel with mounting post - Grey RAL7035	SPANEL/DE/G

Technical Drawings

Mounting Adjustment

Connector Mounting

ST / FC Adaptor   SC Simplex Adaptor   SC duplex Adaptor

Front View   All dimensions in mm

Top View   482
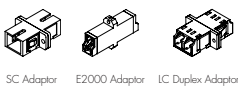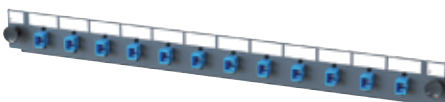
Rear View

Ø 20   Ø 25
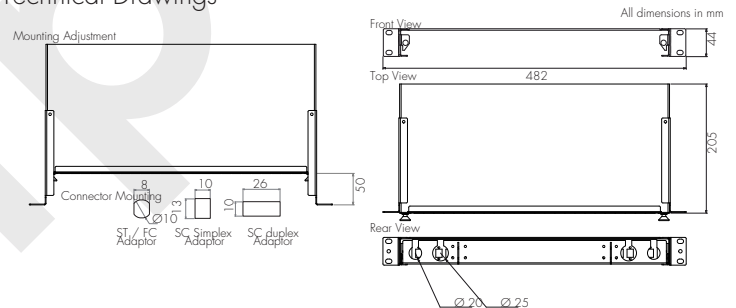
RFO1

RFO1 12 Position SC Duplex Front Panel - Black / Grey

1U Black/Grey Removable front panel for Sliding Patch Panel chassis suitable for up to 12 SC Duplex Adaptors. Allows the installation of up to 24 fibres.

RFO1 Black	Part No.		RFO1 Grey	Part No.
SC Duplex Singlemode	RFO1SCS12		SC Duplex Singlemode	RFO1SCS12/G
SC Duplex Multimode	RFO1SCM12		SC Duplex Multimode	RFO1SCM12/G
SC Duplex Multimode Erika Violet	RFO1SCV12		SC Duplex Multimode Erika Violet	RFO1SCV12/G
SC APC Duplex Singlemode	RFO1SCA12		SC APC Duplex Singlemode	RFO1SCA12/G
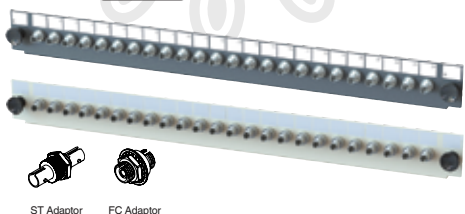
SC Adaptor

RFO2

RFO2 24 Position ST/FC Front Panel - Black / Grey

1U Black/Grey Removable front panel for Sliding Patch Panel chassis suitable for up to 24 ST/FC Duplex Adaptors. Allows the installation of up to 24 fibres.

RFO2 Black	Part No.		RFO2 Grey	Part No.
ST Singlemode	RFO2STS24		ST Singlemode	RFO2STS24/G
ST Multimode	RFO2STM24		ST Multimode	RFO2STM24/G
FC Singlemode	RFO2FCS24		FC Singlemode	RFO2FCS24/G
FC Multimode	RFO2FCM24		FC Multimode	RFO2FCM24/G
FC APC Singlemode	RFO2FCA24		FC APC Singlemode	RFO2FCA24/G

ST Adaptor   FC Adaptor

Patch Panels

RFO3 — RFO3
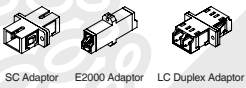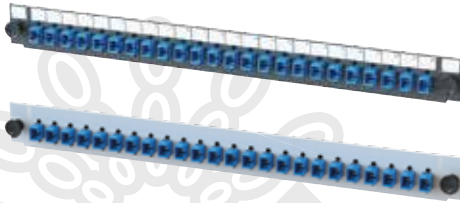
RFO3 24 Position SC/LC/E2000 Front Panel - Black / Grey

1U Black/Grey Removable front panel for Sliding Patch Panel chassis suitable for up to 24 SC/LC/E2000 Duplex Adaptors. Allows the installation of up to 48 fibres.

RFO3 Black	Part No.	RFO3 Grey	Part No.
SC Simplex Multimode	RF03SCM24	SC Simplex Multimode	RF03SCM24/G
SC Simplex Singlemode	RF03SCS24	SC Simplex Singlemode	RF03SCS24/G
SC APC Simplex Singlemode	RF03SCA24	SC APC Simplex Singlemode	RF03SCA24/G
E2000 Multimode	RF03E2M24	E2000 Multimode	RF03E2M24/G
E2000 Singlemode	RF03E2S24	E2000 Singlemode	RF03E2S24/G
E2000 APC Singlemode	RF03E2A24	E2000 APC Singlemode	RF03E2A24/G
LC Duplex Multimode Beige	RF03LCM24	LC Duplex Multimode Beige	RF03LCM24/G
LC Duplex Multimode Erika Violet	RF03LCV24	LC Duplex Multimode Erika Violet	RF03LCV24/G
LC Duplex Singlemode	RF03LCS24	LC Duplex Singlemode	RF03LCS24/G
LC APC Duplex Singlemode	RF03LCA24	LC APC Duplex Singlemode	RF03LCA24/G

SC Adaptor   E2000 Adaptor   LC Duplex Adaptor

RFO4 — RFO4
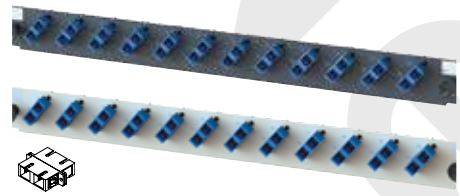
RFO4 12 Position Angled SC Duplex Front Panel - Black / Grey

1U Black/Grey Removable front panel for Sliding Patch Panel chassis suitable for up to 24 SC/LC/E2000 Duplex Adaptors. Allows the installation of up to 48 fibres.

RFO4 Black	Part No.	RFO4 Grey	Part No.
SC Duplex Singlemode	RF04SCS12	SC Duplex Singlemode	RF04SCS12/G
SC Duplex Multimode	RF04SCM12	SC Duplex Multimode	RF04SCM12/G
SC Duplex Multimode Erika Violet	RF04SCV12	SC Duplex Multimode Erika Violet	RF04SCV12/G
SC APC Duplex Singlemode	RF04SCA12	SC APC Duplex Singlemode	RF04SCA12/G

SC Adaptor

RFO5 — RFO5
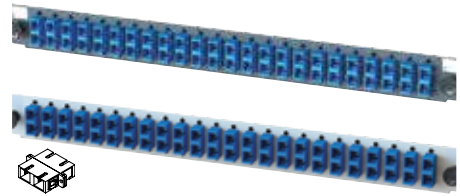
RFO5 24 Position SC Duplex Front Panel - Black / Grey

1U Black/Grey Removable front panel for Sliding Patch Panel chassis suitable for up to 24 SC Duplex Adaptors. Allows the installation of up to 48 fibres

RFO5 Black	Part No.	RFO5 Grey	Part No.
SC Duplex Singlemode	RF05SCS24	SC Duplex Singlemode	RF05SCS24/G
SC Duplex Multimode	RF05SCM24	SC Duplex Multimode	RF05SCM24/G
SC Duplex Multimode Erika Violet	RF05SCV24	SC Duplex Multimode Erika Violet	RF05SCV24/G
SC APC Duplex Singlemode	RF05SCA24	SC APC Duplex Singlemode	RF05SCA24/G
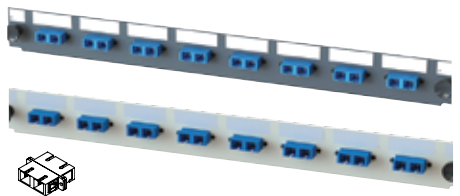
SC Adaptor

RFO6 — RFO6

RFO6 8 Position SC Duplex Front Panel - Black / Grey

1U Black Removable front panel for Sliding Patch Panel chassis suitable for up to 8 SC Duplex Adaptors. Allows the installation of up to 16 fibres.

RFO6 Black	Part No.	RFO6 Grey	Part No.
SC Duplex Singlemode	RF06SCS08	SC Duplex Singlemode	RF06SCS08/G
SC Duplex Multimode	RF06SCM08	SC Duplex Multimode	RF06SCM08/G
SC Duplex Multimode Erika Violet	RF06SCV08	SC Duplex Multimode Erika Violet	RF06SCV08/G
SC APC Duplex Singlemode	RF06SCA08	SC APC Duplex Singlemode	RF06SCA08/G

SC Adaptor

RFO8

RFO6 8 Position SC Duplex Front Panel - Black / Grey

1U Black Removable front panel for Sliding Patch Panel chassis suitable for up to 12 SC Simplex Adaptors. Allows the installation of up to 24 fibres.

	Part No.		Part No.
SC Simplex Multimode	RF08SCM12	E2000 APC Singlemode	RF08E2A12
SC Simplex Singlemode	RF08SCS12	LC Duplex Multimode Beige	RF08LCM12
SC APC Simplex Singlemode	RF08SCA12	LC Duplex Multimode Erika Violet	RF08LCV12
E2000 Multimode	RF08E2M12	LC Duplex Singlemode	RF08LCS12
E2000 Singlemode	RF08E2S12	LC APC Duplex Singlemode	RF08LCA12

SC Adaptor   E2000 Adaptor   LC Duplex Adaptor

Pre-Loaded Fibre Patch Panels

>> Pre-loaded with 1.5m pigtails as standard
>> Colour coded
>> The speedway splice tray allows storage of fibre with no need for stripping
>> 30mm minimum bend radius maintained throughout
>> Time saved on splice tray installation
>> Pre cleaned
>> Individual test certificates for each pigtail
>> For use with heat shrink style splice protectors
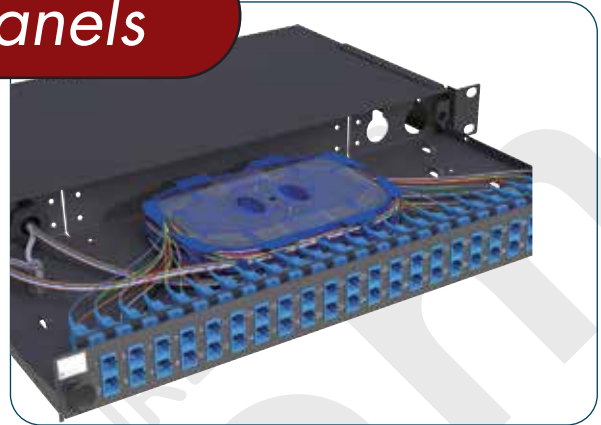
100% Factory Visually Inspected Connectors

We visually inspect 100% of our connectors when we load a panel. The inspection and loading are carried out in a clean factory environment ensuring your loaded panel arrives in the best possible condition.

For use with heat shrink style splice protectors
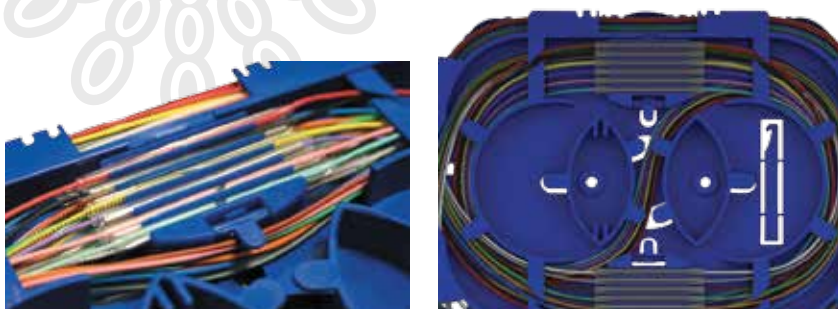
Technical Specifications

Sliding Patch Panels	
Height	1U (44.4mm)
Width	482mm ± 1mm
Depth	205mm
Net Weight	2.5kg
Packaged Weight	3 kg
Package Dimensions	(W) 530mm x (H) 55mm x (D) 260mm
IP Rating	IP20
Suitable for adaptor type	SC Simplex, ST / FC, SC duplex, E2000, LC duplex
Mounting adjustment range	50mm
Cable entry 20mm	2
Cable entry 25mm	2
Material	Cold Rolled Steel
Material thickness	1.2mm
Material coating	Electrostatic Powder Coating
Colour	Black RAL 9004
Operating Temperature	-40°C to +60°C
Compliant to	Reach / SVHC
Designed in accordance with	TIA/EIA 568.C, ISO/IEC 11801, EN 50173, IEC 60304, IEC 61754, EN 297-1

Pigtail Installation Specification

Element Number	Standard Colour Sequence TIA 598-C / IEC 60304
1	Blue
2	Orange
3	Green
4	Brown
5	Slate/Grey
6	White
7	Red
8	Black
9	Yellow
10	Violet
11	Rose
12	Aqua

Patch Panels

S01 S02

ST Adaptor

FC Adaptor

ST Pigtail
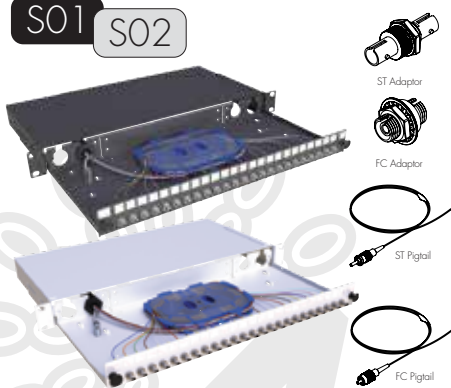
FC Pigtail

S01 24 Position ST/FC Loaded Sliding Panel - Black

S02 24 Position ST/FC Loaded Sliding Panel - Grey

1U Black/Grey Sliding Patch Panel loaded with 24 ST or FC Adaptors and your pigtails of choice. The panel can be recessed for improved fibre management and the tray lowered to a working angle of 45°. Allows the installation of up to 24 fibres.

	Black Part No.	Grey Part No.	Pigtails				
			OS1/OS2 9/125 Singlemode	OM1 62.5/125 Multimode	OM2 50/125 Multimode	OM3 50/125 Multimode	OM4 50/125 Multimode
ST Singlemode	S01STS24	S02STS24	P1	-	-	-	-
ST Multimode	S01STM24	S02STM24	-	P2	P3	P4	P5
FC Singlemode	S01FCS24	S02FCS24	P1	-	-	-	-
FC Multimode	S01FCM24	S02FCM24	-	P2	P3	P4	P5
FC APC Singlemode	S01FCA24	S02FCA24	P1	-	-	-	-

S03 S04

SC Pigtail

LC Duplex Pigtail

E2000 Pigtail

SC Adaptor **E2000 Adaptor** **LC Duplex Adaptor**
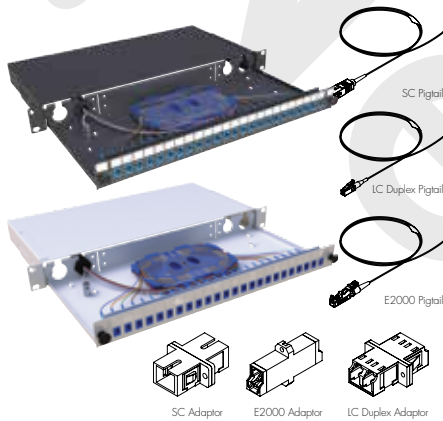
S03 24 Position SC/LC/E2000 1U Loaded Patch Panel - Black

S04 24 Position SC/LC/E2000 1U Loaded Patch Panel - Grey

1U Black/Grey Sliding Patch Panel loaded with 24 SC, LC or E2000 Adaptors and your pigtails of choice. The panel can be recessed for improved fibre management and the tray lowered to a working angle of 45°. Allows the installation of up to 48 fibres.

	Black Part No.	Grey Part No.	Pigtails				
			OS1/OS2 9/125 Singlemode	OM1 62.5/125 Multimode	OM2 50/125 Multimode	OM3 50/125 Multimode	OM4 50/125 Multimode
SC Simplex Multimode	S03SCM24	S04SCM24	-	P2	P3	P4	P5
SC Simplex Singlemode	S03SCS24	S04SCS24	P1		-	-	-
SC APC Simplex Singlemode	S03SCA24	S04SCA24	P1	-	-	-	-
E2000 Multimode	S03E2M24	S04E2M24	-	P2	P3	P4	P5
E2000 Singlemode	S03E2S24	S04E2S24	P1	-	-	-	-
E2000 APC Singlemode	S03E2A24	S04E2A24	P1	-	-	-	-
LC Duplex Multimode Beige	S03LCM24	S04LCM24	-	P2	P3	P4	P5
LC Duplex Multimode Erika Violet	S03LCV24	S04LCV24	-	-	-	-	P5
LC Duplex Singlemode	S03LCS24	S04LCS24	P1	-	-	-	-
LC APC Duplex Singlemode	S03LCA24	S04LCA24	P1	-	-	-	-

S07 S08

SC Pigtail
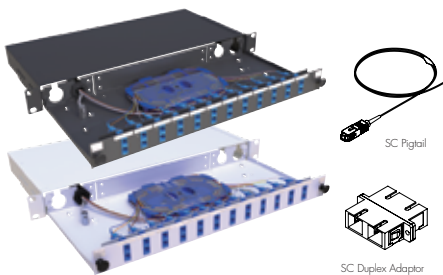
SC Duplex Adaptor

S07 12 Position SC Duplex 1U Loaded Panel - Black

S08 12 Position SC Duplex 1U Loaded Panel - Grey

1U Black/Grey Sliding Patch Panel loaded with 12 SC Duplex Adaptors and your pigtails of choice. The panel can be recessed for improved fibre management and the tray lowered to a working angle of 45°. Allows the installation of up to 24 fibres.

	Black Part No.	Grey Part No.	Pigtails				
			OS1/OS2 9/125 Singlemode	OM1 62.5/125 Multimode	OM2 50/125 Multimode	OM3 50/125 Multimode	OM4 50/125 Multimode
SC Duplex Singlemode	S07SCS12	S08SCS12	P1	-	-	-	-
SC Duplex Multimode	S07SCM12	S08SCM12	-	P2	P3	P4	P5
SC Duplex Multimode Erika Violet	S07SCV12	S08SCV12	-	-	-	-	P5
SC APC Duplex Singlemode	S07SCA12	S08SCA12	P1	-	-	-	-

S09 S10

SC Pigtail
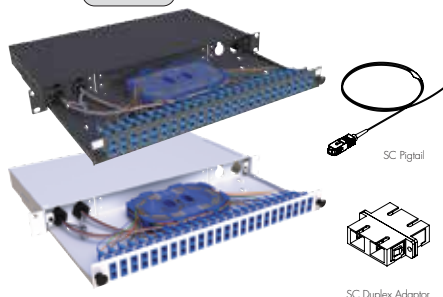
SC Duplex Adaptor

S09 24 Position SC Duplex 1U Loaded Panel - Black

S10 24 Position SC Duplex 1U Loaded Panel - Grey

1U Black/Grey Sliding Patch Panel loaded with 24 SC Duplex Adaptors and your pigtails of choice. The panel can be recessed for improved fibre management and the tray lowered to a working angle of 45°. Allows the installation of up to 48 fibres.

	Black Part No.	Grey Part No.	Pigtails				
			OS1/OS2 9/125 Singlemode	OM1 62.5/125 Multimode	OM2 50/125 Multimode	OM3 50/125 Multimode	OM4 50/125 Multimode
SC Duplex Singlemode	S09SCS24	S10SCS24	P1	-	-	-	-
SC Duplex Multimode	S09SCM24	S10SCM24	-	P2	P3	P4	P5
SC Duplex Multimode Erika Violet	S09SCV24	S10SCV24	-	-	-	-	P5
SC APC Duplex Singlemode	S09SCA24	S10SCA24	P1	-	-	-	-

2U Sliding Patch Panel

This innovative and robust 2U sliding patch panel has been designed to accept up to 96 fibres. The solution incorporates a multifunctional panel which allows for easy access during installation or rework with no disturbance of the existing cable or fibres. The panel offers multiple cable entry solutions including up to 8 standard cable entry points for loose tube, tight buffer, pre-terminated and steel tape armoured cable. Each panel has integrated strength member tie positions and the removable plate at the rear of the panel allows for the installation of steel tape armoured cable.

>> Up to 96 fibres in 2U
>> Up to 96 Adaptor positions
>> Individually labelled ports
>> 45° open working angle
>> Accepts loose tube, distribution and pre-terminated cables
>> Materials Compliant to RoHS2 and REACH/SvHC
>> Fits standard 19"

Technical Specifications

Sliding Patch Panels	
Height	2U (88mm)
Width	483mm ± 1mm
Depth	130mm
Net Weight	3.5kg
Packaged Weight	3.7kg
Package Dimensions	530mm W x 110mm H x 330mm D
IP Rating	IP20
Suitable for adaptor type	SC Simplex (96 port), ST / FC (48 port), SC duplex (48 port), E2000 (48 port), LC duplex (96 port)
Mounting adjustment range	50mm
Cable entry 21mm	4
Cable entry 26mm	4
Material	Cold Rolled Steel
Material thickness	1.2mm
Material coating	Electrostatic Powder Coating
Colour	Black RAL 9004
Operating Temperature	-40°C to +60°C
Compliant to	Reach / SVHC
Designed in accordance with	TIA/EIA 568.C, ISO/IEC 11801, EN 50173, IEC 60304, IEC 61754, EN 297-1

Technical Drawings

All dimensions in mm

Front View

484

88

Top View

250

Rear View

Ø 26

Ø 21

Connector Mounting

8

ST / FC Adaptor

Ø10

10

SC Simplex Adaptor

13

26

SC duplex Adaptor

10
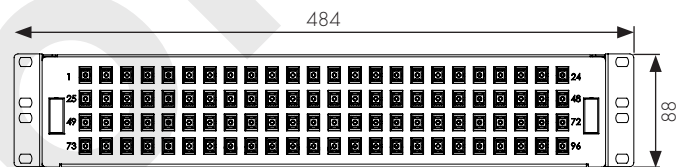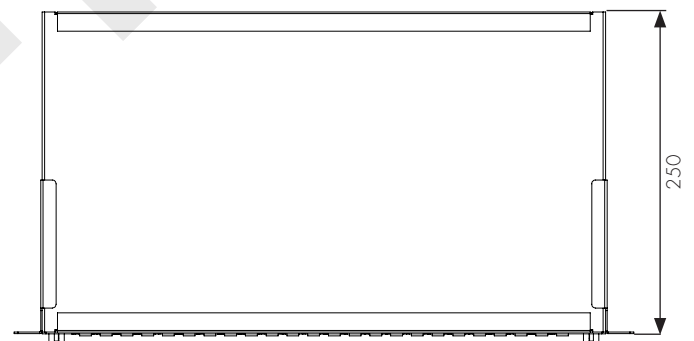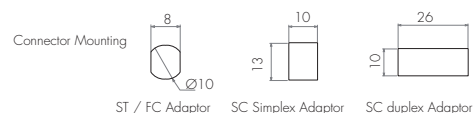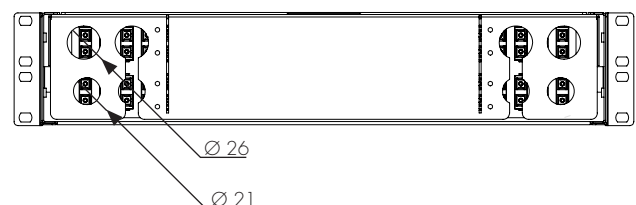
Patch Panels

S25

S25 48 Position ST/FC 2U Sliding Patch Panel

2U Black Sliding Patch Panel suitable for up to 48 ST or FC Adaptors. The panel can be recessed for improved fibre management and the tray lowered to a working angle of 45°. Allows the installation of up to 48 fibres.

	Part No.		Part No.
ST Singlemode	S25STS48	FC Multimode	S25FCM48
ST Multimode	S25STM48	FC APC Singlemode	S25FCA48
FC Singlemode	S25FCS48		
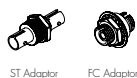
ST Adaptor   FC Adaptor

S24
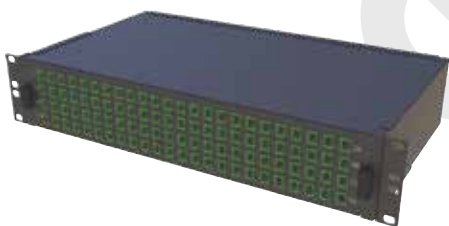
S24 24 Position SC/LC/E2000 2U Sliding Patch Panel - Black

2U Black Sliding Patch Panel suitable for up to 24 SC, LC or E2000 Adaptors. The panel can be recessed for improved fibre management and the tray lowered to a working angle of 45°. Allows the installation of up to 96 fibres.

	Part No.		Part No.
SC Simplex Multimode	S24SCM96	E2000 APC Singlemode	S24E2A96
SC Simplex Singlemode	S24SCS96	LC Duplex Multimode Beige	S24LCM96
SC APC Simplex Singlemode	S24SCA96	LC Duplex Multimode Erika Violet	S24LCV96
E2000 Multimode	S24E2M96	LC Duplex Singlemode	S24LCS96
E2000 Singlemode	S24E2S96	LC APC Duplex Singlemode	S24LCA96

SC Adaptor   E2000 Adaptor   LC Duplex Adaptor

S23
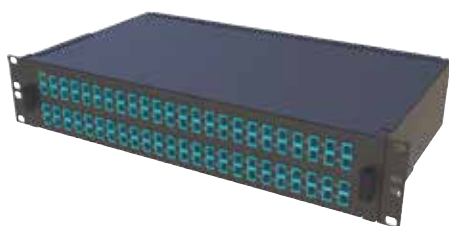
S23 48 Position SC Duplex 2U Sliding Patch Panel - Black

2U Black Sliding Patch Panel suitable for up to 48 SC Duplex Adaptors. The panel can be recessed for improved fibre management and the tray lowered to a working angle of 45°. Allows the installation of up to 96 fibres.

	Part No.		Part No.
SC Duplex Singlemode	S23SCS48	SC Duplex Multimode Erika Violet	S23SCV48
SC Duplex Multimode	S23SCM48	SC APC Duplex Singlemode	S23SCA48

SC Adaptor

Ultra High Density

1U Modular Patch Panel

120 fibers

Description

Netprom inc offers an innovative, high density patch panel. Designed to accommodate up to 120 connections within a 1U panel. These are split between 5 individual modules with up to 24 fibers within each. Each module accepts incoming fiber from either MTP® trunk cables or via pre-terminated assemblies. Pre-terminated cables are available as either ruggedized breakout cable or distribution cable.

Another alternative for cable entry is the patented Netprom FirstLight Prime breakout, capable of being pulled over long distances and connecting directly to equipment. Incoming cable can also be supplied un-terminated for splicing within a standard patch panel. Modules can enter the panel from the front or the rear. Each is supplied with a separate labelling card for ease of channel identification.

Cable entry is managed via a retrofit management bar allowing entry from either the left or the right hand side. Exiting patch cords are managed by a retrofit bracket allowing cables to be routed in any direction. Also available is a 3U system incorporating all of the above but with the addition of a removable door allowing complete access to all relevant components.

Second to this Netprom inc is pleased to offer a 0U solution designed to accommodate sufficient MTP® connectivity to support an individual blade per module. This is managed via a 96 fiber trunk cable directly terminated to 8 MTP® connectors within the module and the choice of MTP® or discrete connectors at the opposing end.

Features

>> Modular Connection System
>> High Density- scaling up to 120 discreet connectors and up to 720 fibers within MTP® interface
>> Up to 24 discrete or 120 (MTP®) fibers connections a single module
>> Cable entry via either MTP® connection or pre-terminated assemblies
>> Pre-loaded in the factory to guarantee performance
>> Can be supplied with pre-terminated pigtails for splicing on the opposite end
>> Can be supplied with a module at one end and ruggedized tails for direct connection to equipment at the opposing end
>> Can be supplied with a module at one end and 900µm tails for connection within a standard patch panel at the opposing end
>> 5 individual modules per panel
>> Module entry from front or rear
>> Rear cable management
>> Retrofit patchcord exit management
>> Separate labelling cards
>> ROHS, REACH SvHC and UL rated
>> Fits standard 19" or ETSI rack

Applications

>> Data centers, premise installations, telecommunication networks
>> Ethernet, Fiber Channel, ATM, LAN, MAN and WAN
>> Data communication networks
>> Indoor applications

Module can pass through the panel in both directions
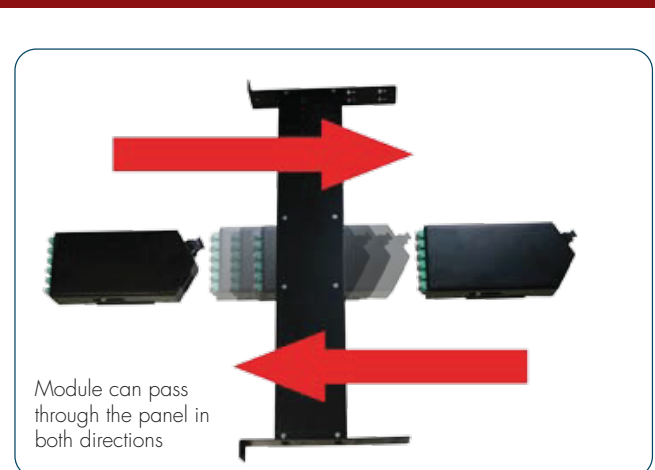
Patch Panels

336 fibers

Ultra High Density
1U Modular Patch Panel
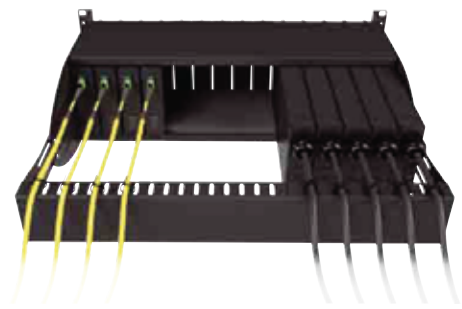
Description

Netprom inc offers an innovative, robust, high density 3U Chassis. This panel has been designed to accept up to 14 LGX style assemblies. With the ability to use a full array of adapter types offering a flexible solution to the end user, enabling them to incorporate a multi functional chassis which allow easy access during installation or re-work with no disturbance of the existing cable or fibers. In addition to the array of adaptors, the chassis also offers multiple cable entry solutions, MTP® trunk cables connected to 14 individual MTP® cassettes with up to 24 fibers in each, loose tube cable connecting to 14 Individual extended cassettes to allow standard splicing or 14 LGX style modules for pre terminated solutions, making this chassis one of the most flexible on the market.

Applications

>> Data centers, premise installations, telecommunication networks
>> Ethernet, Fiber Channel, ATM, LAN, MAN and WAN
>> Data communication and telecommunication networks
>> Indoor applications

Features

>> Up to 14 LGX style assemblies
>> Up to 14 x 24 fiber MTP® cassettes
>> Multiple adapter options available
>> Fully integrated fiber management
>> Splicing option available
>> Flat pack for easy shipment
>> Patch cord exit retrofit cable management available
>> 30mm bend radius maintained throughout
>> Individually labelled ports
>> Accepts loose tube, distribution cable and MTP® trunk cable
>> ROHS, REACH SvHC and UL rated
>> Fits standard 19"
>> Rear cable management bar as standard

Also suitable for use with 1U Chassis
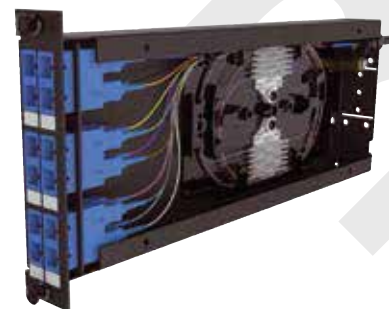
Suitable for use with 3U Chassis only

LGX Style Cassettes for

Ultra High Density 3U LGX Style Chassis

LGX Splice Module
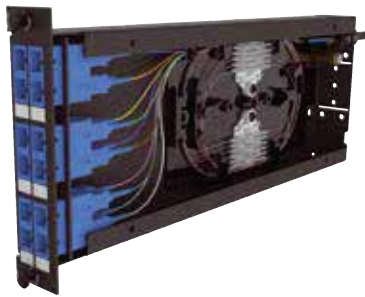
Suitable for use with:

3U LGX Style Chassis
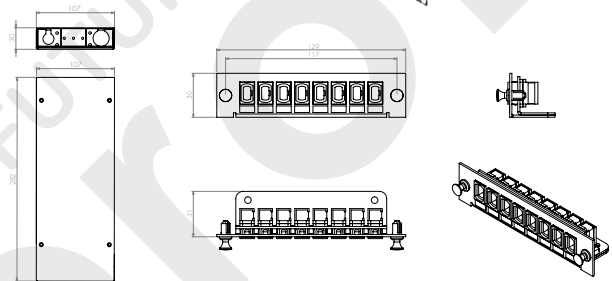
Ordering Information

SC Multimode Simplex		L 01
8 adapter		L01SCM08/CAS

SC Singlemode Simplex		L 01
8 adapter		L01SCS08/CAS

SCA Singlemode Simplex		L 01
8 adapter		L01SCA08/CAS

SC Multimode Duplex		L 03
6 adapter		L03SCM06/CAS

SC Singlemode Duplex		L 03
6 adapter		L03SCS06/CAS

SCA Singlemode Duplex		L 03
6 adapter		L03SCA06/CAS

ST Multimode		L 02
8 adapter		L02STM08/CAS

ST Singlemode		L 02
8 adapter		L02STS08/CAS

FC Multimode		L 02
8 adapter		L02FCM08/CAS

FC Singlemode		L 02
8 adapter		L02FCS08/CAS

L C Multimode Duplex		L01
8 adapter		L01LCM08/CAS

L C Singlemode Duplex		L 01
8 adapter		L01LCS08/CAS

L C-APC Duplex		L 01
8 adapter		L01SCA08/CAS

L C QUAD Multimode		L 03
6 adapter		L03LQM06/CAS

L C QUAD Singlemode		L 03
6 adapter		L03LQS06/CAS

MTR J		L 01
8 adapter		L01MTM08/CAS

E2000 Multimode		L 01
8 adapter		L01E2M08/CAS

E2000 Singlemode		L 01
8 adapter		L01E2S08/CAS

E2000-APC Singlemode		L 01
8 adapter		L02FCM08/CAS

Blank Plate		L 04
		L04

Technical information

MTP® Module

Suitable for use with:

3U LGX Style Chassis

or

1U Chassis

LC Module
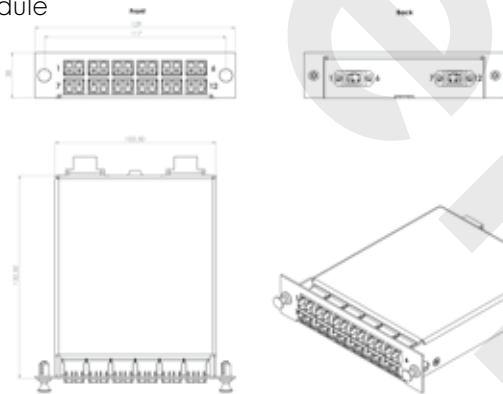
SC Module

Ordering Information

MTP ® Connector		Fiber Count	Discreet Connector		Fiber type			Cass	Polarity	
MTP ® Male (standard)	MTP ®M	12	LC	LC	OS1/OS2	09			A or C	Leave Blank
MTP ® Male Elite ®	MTP ®EM	24	SC	SC	OM1	62			B1	B1
Female available on request					OM2	50			B2	B2
					OM3	OM3				
					OM4	OM4				
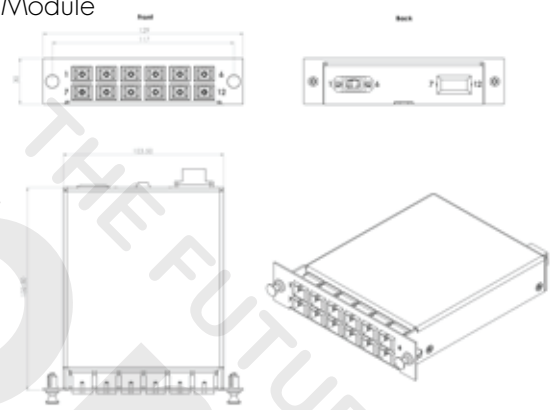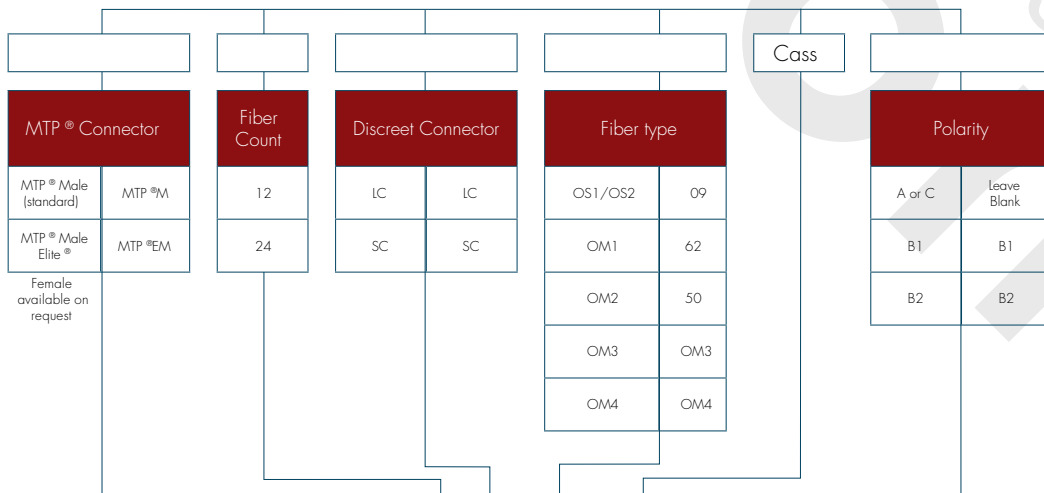
Example Part Number: MTPM 24 LC OM3 CASS B1

MTPM24LCOM3CASS This part number has created 24 fibers OM3 cassette with MTP ® male rear and LC front interface, polarity method B1

1.	2.	3.	4.
5.	6.	7.	8.
9.	10.	11.	12.
13.	14.	15.	16.

Outdoor Optical Distribution Box

- Item No: - Produced date:
- Made by: - Contact:
                    - NO.

FDB

Wall Boxes

19 Inch 3U Modular System

L01SCM08/CAS	L01SCS08/CAS	L01SCA08/CAS	L01MTM08/CAS	L03SCM06/CAS	L03SCS06/CAS	L03SCA06/CAS
Adapter only Part No. SCUSPHBRBEIGE	Adapter only Part No. SCUSZR02	Adapter only Part No. SCAPCUSGREEN	Adapter only Part No. MTRJUNITER	Adapter only Part No. SCUDPHBRBEIGE	Adapter only Part No. SCUDZR02BLUE	Adapter only Part No. SCAPCUDGREEN
SC MULTIMODE SIMPLEX	SC MULTIMODE SIMPLEX	SCA MULTIMODE SIMPLEX	MTRJ	SC MULTIMODE DUPLEX	SC SINGLEMODE DUPLEX	SCA SINGLEMODE DUPLEX
L01 (8 Adapters)	L01 (8 Adapters)	L01 (8 Adapters)	L01 (8 Adapters)	L03 (6 Adapters)	L03 (6 Adapters)	L03 (6 Adapters)

L02STS08/CAS	L02STM08/CAS	L03LQS06/CAS	L03LQM06/CAS	L01LCM08/CAS	L01LCA08/CAS	L01LCS08/CAS
Adapter only Part No. STUZR02	Adapter only Part No. STUPHBR	Adapter only Part No. LCQUADBLUE	Adapter only Part No. LCQUADBEIGE	Adapter only Part No. LCDPXBEIGE	Adapter only Part No. LCAPCUDGREEN	Adapter only Part No. LCDPXBLUE
ST SINGLEMODE	ST MULTIMODE	LC QUAD SINGLEMODE	LC QUAD MULTIMODE	LC MULTIMODE DUPLEX	LC-APC DUPLEX	LC SINGLEMODE DUPLEX
L02 (8 Adapters)	L02 (8 Adapters)	L03 (6 Adapters)	L03 (6 Adapters)	L01 (8 Adapters)	L01 (8 Adapters)	L01 (8 Adapters)

L01E2A08/CAS	L01E2S08/CAS	L01E2M08/CAS	L02FCA08/CAS	L02FCS08/CAS	L02FCM08/CAS	L04
Adapter only Part No. E2APCUGREEN	Adapter only Part No. E2UBLUE	Adapter only Part No. E2UBEIGE	Adapter only Part No. FCAPCUZR02-D	Adapter only Part No. FCUZR02-D	Adapter only Part No. FCUPHBR-D	
E2000-APC SINGLEMODE	E2000 SINGLEMODE	E2000 MULTIMODE	FCA SINGLEMODE	FC SINGLEMODE	FC MULTIMODE	BLANK
L01 (8 Adapters)	L01 (8 Adapters)	L01 (8 Adapters)	L02 (8 Adapters)	L02 (8 Adapters)	L02 (8 Adapters)	

Wall Boxes

The Optronics wall box system in its basic form is supplied with the box unloaded ready for you to install the adapter of your choice. The box can also be pre-loaded complete with the required adapter, or pre-loaded with pigtails to meet your project needs. The quality of construction that comes with the FibreFab range of wall boxes ensures a safe, secure and aesthetically pleasing wall box for your network.

W06 - Lockable 96 Position
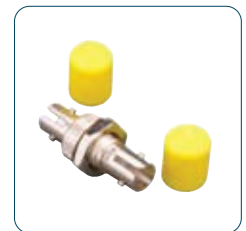
ST / FC Double Door Wall Box

Up to 96 Fibres

Ordering Information
Unloaded   W06XXX00

FC MULTIMODE	
W06 (96 Ports)	With
W06FCM24	24 adapters
W06FCM36	36 adapters
W06FCM96	96 adapters
Adapter only Part No. FCUPHBR-D	

ST SINGLEMODE	
W06 (96 Ports)	With
W06STS24	24 adapters
W06STS36	36 adapters
W06STS96	96 adapters
Adapter only Part No. STUZR02	

FC SINGLEMODE	
W06 (96 Ports)	With
W06FCS24	24 adapters
W06FCS36	36 adapters
W06FCS96	96 adapters
Adapter only Part No. FCUZR02-D	

ST MULTIMODE	
W06 (96 Ports)	With
W06STM24	24 adapters
W06STM36	36 adapters
W06STM96	96 adapters
Adapter only Part No. STUPHBR	

FCA SINGLEMODE	
W06 (96 Ports)	With
W06FCA24	24 adapters
W06FCA36	36 adapters
W06FCA96	96 adapters
Adapter only Part No. FCAPCUZR02-D	

Specification:

Width:	Depth:	Height:	Weight:	Colour:
358 mm	121 mm	360 mm	6kg (fully loaded)	Grey RAL 7035
Cable entry 4 x 20mm gland holes				

W07 - Lockable 72 Position

SC / LC / E2000 / MTRJ Double Door Wall Box

Ordering Information
Unloaded: W07XXX00

Up to 144 Fibres

LC SINGLEMODE DUPLE X	
W07 (72 Ports)	With
W07LCS24	24 adapters
W07LCS36	36 adapters
W07LCS48	48 adapters
W07LCS72	72 adapters
Adapter only Part No. LCDP	

SC MULTIMODE SIMPLE X	
W07 (72 Ports)	With
W07SCM24	24 adapters
W07SCM36	36 adapters
W07SCM48	48 adapters
W07SCM72	72 adapters
Adapter only Part No. SCUSPHBRBEIGE	

SCA SINGLEMODE SIMPLE X	
W07 (72 Ports)	With
W07SCA24	24 adapters
W07SCA36	36 adapters
W07SCA48	48 adapters
W07SCA72	72 adapters
Adapter only Part No. SCAPCUSGREEN	

LC MULTIMODE DUPLE X	
W07 (72 Ports)	With
W07LCM24	24 adapters
W07LCM36	36 adapters
W07LCM48	48 adapters
W07LCM72	72 adapters
Adapter only Part No. LCDP	

E2000 SINGLEMODE	
W07 (72 Ports)	With
W07E2S24	24 adapters
W07E2S36	36 adapters
W07E2S48	48 adapters
W07E2S72	72 adapters
Adapter only Part No. E2UBLUE	

E2000 MULTIMODE	
W07 (72 Ports)	With
W07E2M24	24 adapters
W07E2M36	36 adapters
W07E2M48	48 adapters
W07E2M72	72 adapters
Adapter only Part No. E2UBEIGE	

E2000 APC	
W07 (72 Ports)	With
W07E2A24	24 adapters
W07E2A36	36 adapters
W07E2A48	48 adapters
W07E2A72	72 adapters
Adapter only Part No. E2UBLUE	
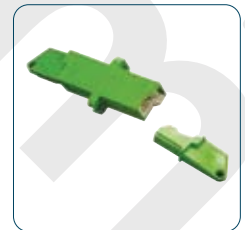
MTRJ	
W07 (72 Ports)	With
W07MTM24	24 adapters
W07MTM36	36 adapters
W07MTM48	48 adapters
W07MTM72	72 adapters
Adapter only Part No. MTRJUNITER	

Specification:

Width:	Depth:	Height:	Weight:	Colour:
358 mm	121 mm	360 mm	6kg (fully loaded)	Grey RAL 7035
2 x 20mm + 2 x 25mm cable entry, top and bottom; 1x Slotted cable exit, top and bottom.				

W08 - Lockable 48 Position

SC Duplex / LC QUAD Double Door Wall Box

Up to 192 Fibres

Ordering Information
Unloaded   W08XXX00

SC MULTIMODE DUPLE X	
W08 (48 Ports)	With
W08SCM18	18 adapters
W08SCM24	24 adapters
W08SCM48	48 adapters
Adapter only Part No. SCUDPHBRBEIGE	

LC QUAD SINGLEMODE	
W08 (48 Ports)	With
W08LQS18	18 adapters
W08LQS24	24 adapters
W08LQS48	48 adapters
Adapter only Part No. LCQUADBLUE	

SCA SINGLEMODE DUPLE X	
W08 (48 Ports)	With
W08SCA18	18 adapters
W08SCA24	24 adapters
W08SCA48	48 adapters
Adapter only Part No. SCAPCUDGREEN	

LC QUAD MULTIMODE	
W08 (48 Ports)	With
W08LQM18	18 adapters
W08LQM24	24 adapters
W08LQM48	48 adapters
Adapter only Part No. LCQUADBEIGE	

SC SINGLEMODE DUPLE	
W08 (48 Ports)	With
W08SCS18	18 adapters
W08SCS24	24 adapters
W08SCS48	48 adapters
Adapter only Part No. SCAPCUDGREEN	

Specification:

Width:	Depth:	Height:	Weight:	Colour:
358 mm	121 mm	360 mm	6kg (fully loaded)	Grey RAL 7035
2 x 20mm + 2 x 25mm cable entry, top and bottom; 1x slotted cable exit, top and bottom.				

Wall Boxes

W09 - 4 Position

Modular Double Door Lockable Wall Box

Up to 96 Fibres

Ordering Information
Unloaded   W09XXX00

L01SCM08

Adapter only Part No. SCUSPHBRBEIGE

SC MULTIMODE
SIMPLEX
L01
(8 ports/adapters)

L01SCS08

Adapter only Part No. SCUSZR02

SC MULTIMODE
SIMPLEX
L01
(8 ports/adapters)

The W09 wall box offers you the flexibility of its construction. With 4 positions and a wide variety of modules for all types of adapter, it's a flexible solution allowing the management of many connections inside one compact, strong and practical box.

L01SCA08

Adapter only Part No. SCAPCUSGREEN

SCA MULTIMODE
SIMPLEX
L01
(8 ports/adapters)

L03SCM06

Adapter only Part No. SCUDPHBRBEIGE

SC MULTIMODE
DUPLEX
L03
(6 ports/adapters)

L03SCS06

Adapter only Part No. SCUDZR02BLUE

SC SINGLEMODE
DUPLEX
L03
(6 ports/adapters)

L03SCA06

Adapter only Part No. SCAPCUDGREEN

SCA SINGLEMODE
DUPLEX
L03
(6 ports/adapters)

L01LCM08

Adapter only Part No. LCDPXBEIGE

LC MULTIMODE
DUPLEX
L01
(8 ports/adapters)

L01LCS08

Adapter only Part No. LCDPX

LC SINGLEMODE
DUPLEX
L01
(8 ports/adapters)

Fibre Optic Solutions

L01LCA08	L03LQM06	L02STM08	L02STS08	L02FCM08	L02FCS08
Adapter only Part No. LCAPCUDGREEN	Adapter only Part No. LCQUADBEIGE	Adapter only Part No. STUPHBR	Adapter only Part No. STUZR02	Adapter only Part No. FCUPHBR-D	Adapter only Part No. FCUZR02-D
LC-APC DUPLEX	LC QUAD MULTIMODE	ST MULTIMODE	ST SINGLEMODE	FC MULTIMODE	FC SINGLEMODE
L01 (8 ports/adapters)	L03 (6 ports/adapters)	L02 (8 ports/adapters)	L02 (8 ports/adapters)	L02 (8 ports/adapters)	L02 (8 ports/adapters)

L02FCA08	L03LQS06	L01MTM08	L01E2M08	L01E2S08	L01E2A08
Adapter only Part No. FCAPCUZR02-D	Adapter only Part No. LCQUADBLUE	Adapter only Part No. MTRJUNITER	Adapter only Part No. E2UBEIGE	Radapter only Part No. E2UBLUE	Adapter only Part No. E2APCUGREEN
FCA SINGLEMODE	LC QUAD SINGLEMODE	MTRJ	E2000 MULTIMODE	E2000 SINGLEMODE	E2000-APC SINGLEMODE
L02 (8 ports/adapters)	L03 (6 ports/adapters)	L01 (8 ports/adapters)	L01 (8 ports/adapters)	L01 (8 ports/adapters)	L01 (8 ports/adapters)

LO4

blank plate

Specification:

Width:	Depth:	Height:	Weight:		Colour:
358 mm	121 mm	360 mm	6kg (fully loaded)		Grey RAL 7035
2 x 20mm + 2 x 25mm cable entry, top and bottom; 1x slotted cable exit, top and bottom.					

Wall Boxes

Tamperproof Wall Boxes

The range of FibreFab tamperproof wall boxes can be supplied pre-loaded with your selected adapters or unloaded. These boxes are perfect for wall mounted applications within a network.
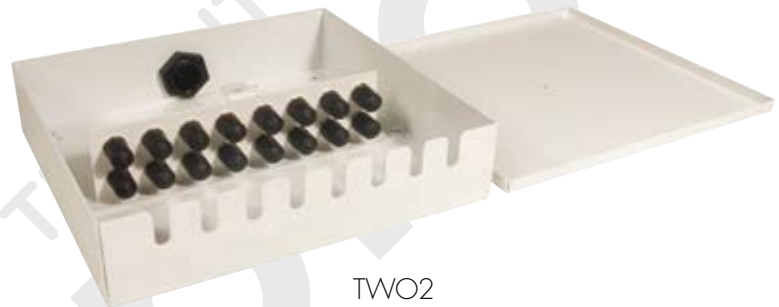
Fibre Optic Solutions

TW01 - 8 Position Tamperproof ST / FC Wall Box, Up to 8 Fibres

TW02 - 16 Position Tamperproof ST / FC Wall Box, Up to 16 Fibres

TWO1

TWO2

Ordering Information
Unloaded TW01 : Ref TW01XXX00
Unloaded TW02 : Ref TW02XXX00

FC MULTIMODE			
TW01 (8 Ports)	With	TW02 (16 Ports)	With
TW01FCM04	4 adapters	TW02FCM08	8 adapters
TW01FCM08	8 adapters	TW02FCM16	16 adapters
Adapter only Part No. FCUPHBR-D			

ST SINGLEMODE			
TW01 (8 Ports)	With	TW02 (16 Ports)	With
TW01STS04	4 adapters	TW02STS08	8 adapters
TW01STS08	8 adapters	TW02STS16	16 adapters
Adapter only Part No. STUZRO2			

FC SINGLEMODE			
TW01 (8 Ports)	With	TW02 (16 Ports)	With
TW01FCS04	4 adapters	TW02FCS08	8 adapters
TW01FCS08	8 adapters	TW02FCS16	16 adapters
Adapter only Part No. FCUZRO2-D			

ST MULTIMODE			
TW01 (8 Ports)	With	TW02 (16 Ports)	With
TW01STM04	4 adapters	TW02STM08	8 adapters
TW01STM08	8 adapters	TW02STM16	16 adapters
Adapter only Part No. STUPHBR			

FCA SINGLEMODE			
TW01 (8 Ports)	With	TW02 (16 Ports)	With
TW01FCA04	4 adapters	TW02FCA08	8 adapters
TW01FCA08	8 adapters	TW02FCA16	16 adapters
Adapter only Part No. FCAPCUZRO2-D			

Specification:

TW01

Width:	Depth:	Height:	Weight:	Colour:
100mm	40 mm	160 mm	0.6kg (fully loaded)	White
Cable entry 1 x 20mm gland holes				

TW02

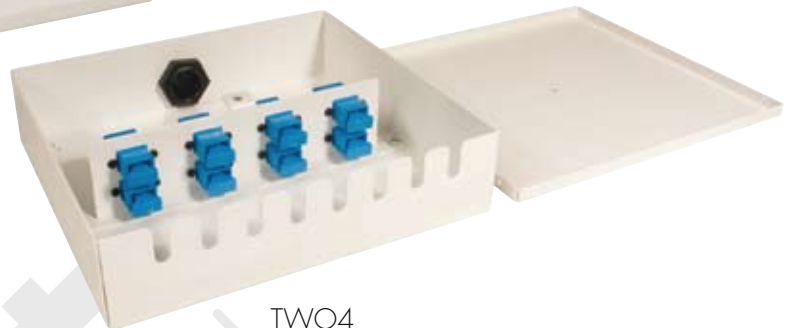| Width:	Depth:	Height:	Weight:	Colour:
172mm	40 mm	160 mm	0.9kg (fully loaded)	White
Cable entry 1 x 20mm gland holes				

Wall Boxes

TW03 - 4 Position Tamperproof SC/LC/MTRJ/E2000 Wall Box - Up to 8 Fibres

TW04 - 8 Position Tamperproof SC/LC/MTRJ/E2000 Wall Box - Up to 16 Fibres

TWO3

TWO4

Ordering Information

Unloaded TW03 : Ref TW03XXX00
Unloaded TW04 : Ref TW04XXX00

SC MULTIMODE SIMPLEX			
TW01 (4 Ports)	With	TW04 (8 Ports)	With
TW03SCM02	2 adapters	TW04SCM04	4 adapters
TW03SCM04	4 adapters	TW04SCM08	8 adapters
Adapter only Part No. SCUSPHBRBEIGE			

MTRJ			
TW03 (4 Ports)	With	TW04 (8 Ports)	With
TW03MTM02	2 adapters	TW04MTM04	4 adapters
TW03MTM04	4 adapters	TW04MTM08	8 adapters
Adapter only Part No. MTRJUNITER			

SCA SINGLEMODE SIMPLEX			
TW03 (4 Ports)	With	TW04 (8 Ports)	With
TW03SCA02	2 adapters	TW04SCA04	4 adapters
TW03SCA04	4 adapters	TW04SCA08	8 adapters
Adapter only Part No. SCAPCUSGREEN			

LC SINGLEMODE DUPLEX			
TW03 (4 Ports)	With	TW04 (8 Ports)	With
TW03LCS02	2 adapters	TW04LCS04	4 adapters
TW03LCS04	4 adapters	TW04LCS08	8 adapters
Adapter only Part No. LCDPXBLUE			

Specification:

TW03

Width:	Depth:	Height:	Weight:	Colour:
100mm	40 mm	160 mm	0.6kg (fully loaded)	White
Cable entry 1 x 20mm gland holes				

TW04

Width:	Depth:	Height:	Weight:	Colour:
172mm	40 mm	160 mm	0.9kg (fully loaded)	White
Cable entry 1 x 20mm gland holes				

LC MULTIMODE DUPLEX			
TW03 (4 Ports)	With	TW04 (8 Ports)	With
TW03LCM02	2 adapters	TW04LCM04	4 adapters
TW03LCM04	4 adapters	TW04LCM08	8 adapters
Adapter only Part No. LCDPXBEIGE			

THE FUTURE IS FAST

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