



Samaneh Houshmand Ertebatat

## Our Service

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- 02 Copper Cabling Solutions
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[www.sohaco.net](http://www.sohaco.net)



SOHA

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DATA CABINETS  
AND  
RACKS





SAMANE HOUSHMAND ERTEBATAT SOHA is a professional provider of communication and high-speed network system solutions to networking, data center and telecom customers, with the vision to redefine service and product quality not previously had in the fiber optic networking industry. A company devoted to constant technology innovation and breakthroughs,

SOHA has invested resources in product R&D, quality control, intelligent manufacturing, industry-leading experts, professional technical support and networking solutions, to provide customers with higher-performance, lower-power consumption, and the most cost-effective products and promote different clients' network upgrade.



### LAN Office

The scalability of Ethernet technology allows the constant expansion of the networks used for information engineering in buildings. In banks and insurance companies, research and development, universities, hospitals, hotels, airports and many other fields of application, high-performance, highly available Ethernet networks are indispensable for smooth operation and economic success. Besides the economically sound networking of PCs and printers, the intelligent combination of fibre optic technology in the backbone and copper technology up to the user allows IP telephony too. In addition, Power over Ethernet supplies terminal equipment such as WEB cameras,

**Soha** make up a comprehensive range of copper and FO solutions according to ISO/ IEC 11801 / EN 50173-1/2. In addition, advice is offered with regard to IEC 60332 and EN 50173-99-1 and as a guide to selecting products.

### LAN Industry

LAN Industry has become successfully established as a communication medium in industrial automation. The technology is now used on all levels for the networking of controls, drives, PCs and remote I/Os. Ethernet offers the advantage of a sophisticated, standardised technology as well as great potential for rationalisation:

- ▶ The worldwide IT standard
- ▶ Consistent communication to office computer technology
- ▶ Standardised protocols for data communication and web functions
- ▶ Scalable
- ▶ Transparent communication between all network participants
- ▶ Simplified programming, taking into operation and servicing

**Soha** comply with is IEC60332 EN 50173-3.

We will be glad to advise you on the subject of the MICE concept.

### DATA CENTER

Large companies often have extensive memory networks and computer centres. The high demands can be met using cabling solutions with between 10 and 100 Gbits/s. Besides the price and what you get for it, system stability (for example via a redundant network design), high flexibility and consistent serviceability of the company network also play a particularly important part.

SOHA provides a comprehensive range of copper and fiber optic solutions for DATA centres according to IEC 61034 and EN 50173 too.

We will gladly help you to choose the products you require.

### LAN Home

Whereas the LAN Office field focuses on the networking of printers and PCs, multimedia applications are the centre of interest in the LAN Home segment.

Service-independent broadband multimedia cablings provide the platform for combining information and communication engineering at the home workplace with the range of entertainment offered in the leisure field.

There are now an increasing number of components with network capabilities which can turn your PC into a television set, your television set into an Internet access point with a playstation and your stereo system into a storage medium for mp3 files.

Soha conforms to the IEC60332 and EN50173-4 standards for detached and semi-detached houses.

Please don't hesitate to ask us about the network design .

**COPPER CABLES**



CAT6A S/FTP CABLE (INDOOR)-500MHZ



CAT6A F/UTP CABLE (INDOOR)-500MHZ



CAT6 SF/UTP CABLE (OUTDOOR)-250MHZ



CAT6 SF/UTP CABLE (INDOOR)-250MHZ



CAT7 S/FTP CABLE (INDOOR)-600MHZ



CAT6A S/FTP CABLE (OUTDOOR)-500MHZ



CAT6 F/UTP CABLE (INDOOR)-250MHZ



CAT6 U/UTP CABLE (INDOOR)-250MHZ

**COPPER KEYSTONE JACKS**



KEYSTONE CAT6A SHIELDED



KEYSTONE CAT6 UNSHIELDED

**COPPER PATCH CORDS**



RJ45 PATCH CORD CAT6 UTP



RJ45 PATCH CORD CAT6A S/FTP

**COPPER PATCH PANELS**



CAT6 FULL LOADED UNSHIELDED

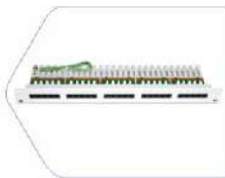


CAT6 UNLOADED SHIELDED



CAT6 UNLOADED UNSHIELDED

**PHONE PANEL**



SINGLE/MODULAR FOR 1/2 JACK

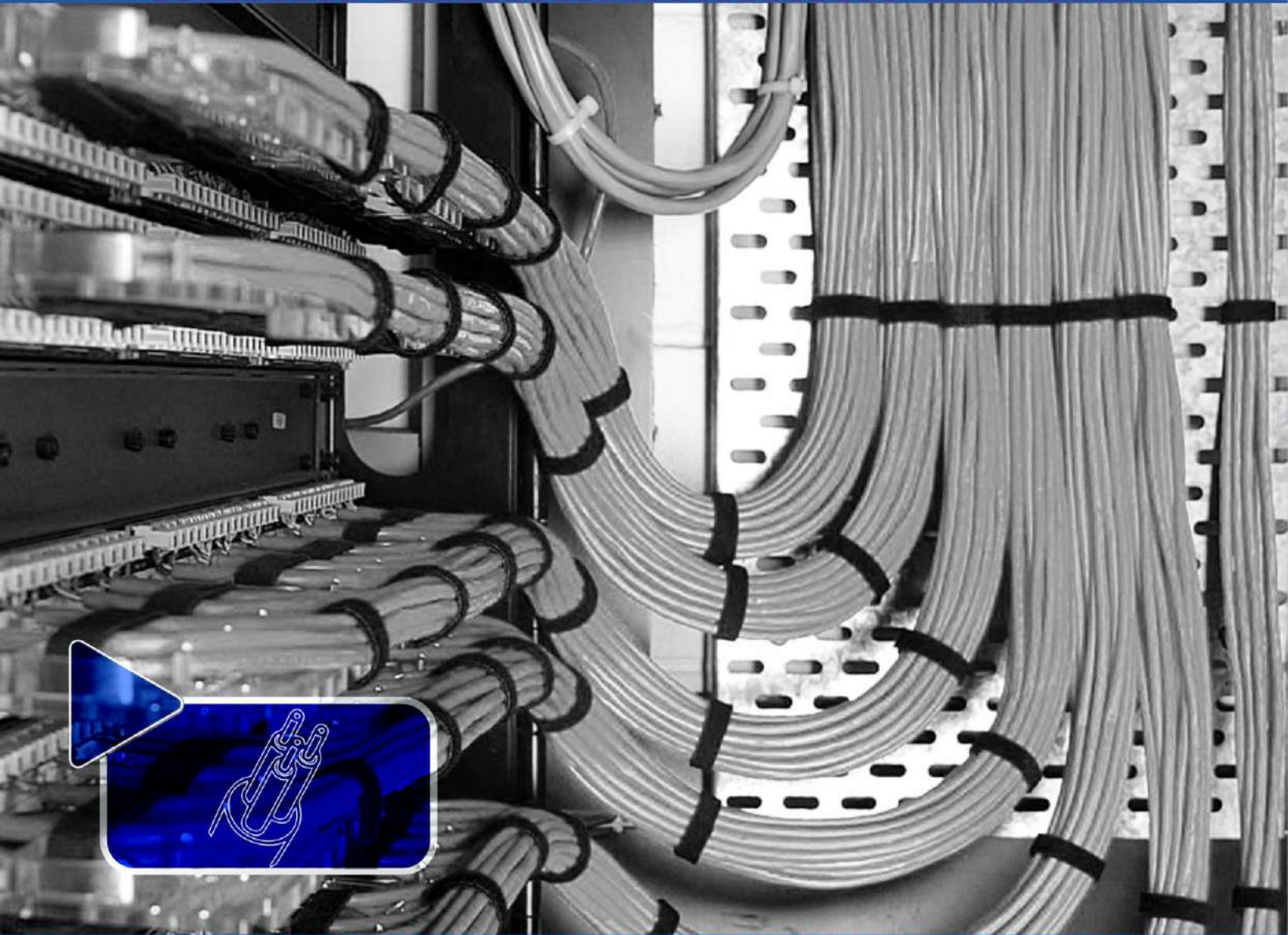


SINGLE/MODULAR FOR 1/2 JACK

**FACE PLATES**







# COPPER CABLES

- ▶ CAT6 U/UTP CABLE (INDOOR)
- ▶ CAT6 F/UTP CABLE (INDOOR)
- ▶ CAT6 SF/UTP CABLE (INDOOR)
- ▶ CAT6 SF/UTP CABLE (OUTDOOR)
- ▶ CAT6A F/UTP CABLE (INDOOR)
- ▶ CAT6A S/FTP CABLE (INDOOR)
- ▶ CAT6A S/FTP CABLE (OUTDOOR)
- ▶ CAT7 S/FTP CABLE (INDOOR)


**CAT6 U/UTP CABLE (INDOOR)-250MHZ**

**Structure:**

- 23 AWG solid copper conductors
- PE insulation
- PE CENTRAL CROSS
- PVC/PE/LSZH jacket

**Standard:**

- EN 50173
- EN 50288
- ISO 11801
- IEC 61156-5
- TIA 568.2
- EN 50575
- IEC 60332
- IEC 61034
- IEC 60754

**Applications:**

- Installation cable for generic cabling systems acc.
- ISO/IEC 11801 and EN 50173
- Ideal for all application of classes D up to E Up to 1GB acc.
- IEEE 802.3 ab, VOIP, POE

**Chemical characteristics:**

- Free of hazardous substances acc. to RoHS 2002/95/EG

**Mechanical characteristics:**

- Bending radius: During installation: 8 x overall Diameter (min.) & after installation: 4 x overall Diameter (min)
- Tensile strength: 110 (max.), Crush (N/100 mm): 1,000 Impact (number of shocks): 10

**Thermal characteristics:**

- Temperature range for fixed installation: -20°C up to +60°C
- Temperature range for mobile operation: -0°C up to +50°C

Frequency (Mhz)	Return Loss (dB)	Attenuation (dB/100m)	NEXT (dB)	PS NEXT (dB)	EL FEXT (dB/100m)	PS ELFEXT (dB/100m)
1	20.0	2.00	74.3	72.3	67.8	64.8
4	23.0	3.80	65.3	63.3	55.8	52.8
8	24.5	5.30	60.8	58.8	49.7	46.7
10	25.5	6.00	59.3	57.3	47.8	44.8
16	25.5	7.60	56.2	54.2	43.7	40.7
20	25.5	8.50	54.8	52.8	41.8	38.8
31.25	23.6	10.70	51.9	49.9	37.8	34.9
62.5	21.5	15.40	47.4	45.4	31.9	28.9
100	20.1	19.80	44.3	42.3	27.8	24.8
250	17.3	32.80	38.3	36.3	19.8	16.8

Part Number	Size	Jacket type	AWG	Reel	Color
CU 510.PVC	4P	PVC	23	500m	Gray, Blue, Red, Purple, Yellow
CU 510.LSZH	4P	LSZH	23	500m	Orange

CAT6 F/UTP CABLE (INDOOR)-250MHZ



**Structure:**

- 23 AWG solid copper conductors
- Aluminum foil around pairs
- Braid around four pairs
- PVC/LSZH jacket

**Standard:**

- EN 50173
- EN 50288
- ISO 11801
- IEC 61156-5
- TIA 568.2
- EN 50575
- IEC 60332
- IEC 61034
- IEC 60754

**Applications:**

- Installation cable for generic cabling systems acc.
- ISO/IEC 11801 and EN 50173
- Ideal for all application of classes D up to E<sub>A</sub> Up to 1GbE acc.
- IEEE 802.3 an, cable sharing, VOIP, PoE.

**Chemical characteristics:**

- Free of hazardous substances acc. to RoHS 2002/95/EG

**Mechanical characteristics:**

- Bending radius: During installation: 8 x overall Diameter (min.) & after installation: 4 x overall Diameter (min)
- Tensile strength: 110 (max.), Crush (N/100 mm): 1,000 Impact (number of shocks): 10

**Thermal characteristics:**

- Temperature range for fixed installation: -20°C up to +60°C
- Temperature range for mobile operation: -0°C up to +50°C

Frequency (Mhz)	ReturnLoss (dB)	Attenuation (dB/100m)	NEXT (dB)	PS NEXT (dB)	EL FEXT (dB/100m)	PS ELFEXT (dB/100m)
1	20.0	2.00	74.3	72.3	67.8	64.8
4	23.0	3.80	65.3	63.3	55.8	52.8
8	24.5	5.30	60.8	58.8	49.7	46.7
10	25.5	6.00	59.3	57.3	47.8	44.8
16	25.5	7.60	56.2	54.2	43.7	40.7
20	25.5	8.50	54.8	52.8	41.8	38.8
31.25	23.6	10.70	51.9	49.9	37.8	34.9
62.5	21.5	15.40	47.4	45.4	31.9	28.9
100	20.1	19.80	44.3	42.3	27.8	24.8
250	17.3	32.80	38.3	36.3	19.8	16.8

Part Number	Size	Jacket type	AWG	Reel	Color
CU 520.PVC	4P	PVC	23	500m	Blue, Gray, Red,Purple,Yellow
CU 520.LSZH	4P	LSZH	23	500m	Orange


**CAT6 SF/UTP CABLE (INDOOR)-250MHZ**

**Structure:**

- 23 AWG solid copper conductors
- Aluminum foil around pairs
- Braid around four pairs
- PVC/PE/LSZH jacket
- Foam/skin PE insulation

**Standard:**

- EN 50173
- EN 50288
- ISO 11801
- IEC 61156-5
- TIA 568.2
- EN 50575
- IEC 60332
- IEC 61034
- IEC 60754

**Applications:**

- Installation cable for generic cabling systems acc.
- ISO/IEC 11801 and EN 50173
- Ideal for all application of classes D up to E<sub>A</sub> Up to 1GbE acc. IEEE 802.3 an, cable sharing, VOIP, PoE.

**Chemical characteristics:**

- Free of hazardous substances acc. to RoHS 2002/95/EG

**Mechanical characteristics:**

- Bending radius: During installation: 8 x overall Diameter (min.) & after.
- Installation: 4 x overall Diameter (min)
- Tensile strength: 110 (max.), Crush (N/100 mm): 1,000 Impact (number of shocks): 10

**Thermal characteristics:**

- Temperature range for fixed installation: -20°C up to +60°C
- Temperature range for mobile operation: -0°C up to +50°C

Frequency (Mhz)	ReturnLoss (dB)	Attenuation (dB/100m)	NEXT (dB)	PS NEXT (dB)	EL FEXT (dB/100m)	PS ELFEXT (dB/100m)
1	20.0	2.00	74.3	72.3	67.8	64.8
4	23.0	3.80	65.3	63.3	55.8	52.8
8	24.5	5.30	60.8	58.8	49.7	46.7
10	25.5	6.00	59.3	57.3	47.8	44.8
16	25.5	7.60	56.2	54.2	43.7	40.7
20	25.5	8.50	54.8	52.8	41.8	38.8
31.25	23.6	10.70	51.9	49.9	37.8	34.9
62.5	21.5	15.40	47.4	45.4	31.9	28.9
100	20.1	19.80	44.3	42.3	27.8	24.8
250	17.3	32.80	38.3	36.3	19.8	16.8

Part Number	Size	Jacket type	AWG	Reel	Color
CU 540.PVC	4P	PVC	23	500m	Purple, Blue, Gray, Red, Yellow
CU 540.LSZH	4P	LSZH	23	500m	Orange

CAT6 SF/UTP CABLE (OUTDOOR)-250MHZ



**Structure:**

- 23 AWG solid copper conductors
- Aluminum foil around pairs
- Braid around four pairs
- PE jacket
- Foam/skin PE insulation

**Standard:**

- EN 50173
- EN 50288
- ISO 11801
- IEC 61156-5
- TIA 568.2

**Applications:**

- Installation cable for generic cabling systems acc.
- ISO/IEC 11801 and EN 50173
- Ideal for all application of classes D up to E<sub>A</sub> Up to 1GbE acc.
- IEEE 802.3 an, cable sharing, VOIP, PoE.

**Chemical characteristics:**

- Free of hazardous substances acc. to RoHS 2002/95/EG

**Mechanical characteristics:**

- Bending radius: During installation: 8 x overall Diameter (min.) & after installation: 4 x overall Diameter (min)
- Tensile strength: 110 (max.), Crush (N/100 mm): 1,000 Impact (number of shocks): 10

**Thermal characteristics:**

- Temperature range for fixed installation: -20°C up to +60°C
- Temperature range for mobile operation: -0°C up to +50°C

Frequency (Mhz)	ReturnLoss (dB)	Attenuation (dB/100m)	NEXT (dB)	PS NEXT (dB)	EL FEXT (dB/100m)	PS ELFEXT (dB/100m)
1	20.0	2.00	74.3	72.3	67.8	64.8
4	23.0	3.80	65.3	63.3	55.8	52.8
8	24.5	5.30	60.8	58.8	49.7	46.7
10	25.5	6.00	59.3	57.3	47.8	44.8
16	25.5	7.60	56.2	54.2	43.7	40.7
20	25.5	8.50	54.8	52.8	41.8	38.8
31.25	23.6	10.70	51.9	49.9	37.8	34.9
62.5	21.5	15.40	47.4	45.4	31.9	28.9
100	20.1	19.80	44.3	42.3	27.8	24.8
250	17.3	32.80	38.3	36.3	19.8	16.8

Part Number	Size	Jacket type	AWG	Reel	Color
CU 550.PE	4P	PE	23	500m	Black




**CAT6A F/UTP CABLE (INDOOR)-500MHZ**

**Structure:**

- 23 AWG solid copper conductors
- Aluminum foil around each pairs
- Braid around four pairs
- PVC/PE/LSZH jacket

**Standard:**

- EN 50173
- EN 50288
- ISO 11801
- IEC 61156-5
- TIA 568.2
- EN 50575
- IEC 60332
- IEC 61034
- IEC 60754

**Applications:**

- Data cable for structured premises cabling.
- For the transmission for digital and analogue voice, video and data signals.
- Ideal for all application of to class E<sub>a</sub> up to 10 GbE acc
- Applicable for Power over Ethernet (PoE)/ PoE+.
- ISO/IEC 111801 and EN 50173

**Mechanical characteristics:**

- Bending radius: During installation:  $\geq 56$  mm permanently installed:  $\geq 28$  mm
- Tensile strength:  $\geq 95$  N
- Crush resistance:  $\geq 1000$  N/10 cm
- Impact:  $\geq 10$  impacts
- Temperature range: during installation: 20°C to +50°C
- In operation: -20°C to +60°C

**Chemical characteristics:**

- Free of hazardous substances acc. to RoHS 2002/95/EG

**Thermal characteristics:**

- Temperature range for fixed installation: -20°C up to +60°C
- Temperature range for mobile operation: 0°C up to +50°C

Frequency (Mhz)	ReturnLoss (dB)	Attenuation (dB/100m)	NEXT (dB)	PS NEXT (dB)	EL FEXT (dB/100m)	PS ELFEXT (dB/100m)
1	20.0	2.00	74.3	72.3	67.8	64.8
4	23.0	3.80	65.3	63.3	55.8	52.8
20	25	8.40	54.8	52.8	41.8	38.8
25	24.3	9.40	53.3	61.3	39.8	36.8
31.25	23.6	10.50	51.9	49.9	37.9	34.9
62.5	21.5	15.00	47.4	45.4	31.9	38.8
100	20.1	19.10	44.3	42.3	27.8	24.8
250	17.3	31.1	38.3	36.3	19.8	16.8
300	16.8	34.3	37.1	35.1	18.3	15.3
500	15.2	45.3	33.8	31.8	13.8	10.8

Part Number	Size	Jacket type	AWG	Reel	Color
CU 580.Lszh	4P	PE	23	500m	Red, Orange, Blue, Gray, Purple, Yellow

CAT7 S/FTP CABLE (INDOOR)-600MHZ



**Structure:**

- 23 AWG solid copper conductors
- Aluminum foil around each pairs
- Braid around four pairs
- PVC/LSZH jacket

**Standard:**

- EN 50173
- EN 50288
- ISO 11801
- IEC 61156-5
- TIA 568.2
- EN 50575
- IEC 60332
- IEC 61034
- IEC 60754

**Applications:**

- Installation cable for generic cabling systems acc.
- ISO/IEC 11801 and EN 50173 (2. edition)
- Ideal for all application of classes D up to F Multimedia
- (TV, Video, Data, Voice) up to 10GbE IEEE 802.3 an, cable sharing, VOIP, PoE.

**Chemical characteristics:**

- Free of hazardous substances acc. to RoHS 2002/95/EG

**Mechanical characteristics:**

- Bending radius: During installation: 8 x overall Diameter (min.) & after.
- Installation: 4 x overall Diameter (min)
- Tensile strength: 110 (max.), Crush (N/100 mm): 1,000 Impact (number of shocks): 10

**Thermal characteristics:**

- Temperature range for fixed installation: -20°C up to +60°C
- Temperature range for mobile operation: -0°C up to +50°C

Frequency (Mhz)	ReturnLoss (dB)	Attenuation (dB/100m)	NEXT (dB)	PS NEXT (dB)	EL FEXT (dB/100m)	PS ELFEXT (dB/100m)
4	23.0	3.70	78	75	78	75
8	24.5	5.20	78	75	77.2	74.2
16	25	7.40	78	75	71.2	68.2
26	24.3	9.30	78	75	67.3	64.2
62.5	21.5	14.90	75.5	72.5	59.4	62.4
100	20.1	19.0	72.4	69.4	55.3	52.3
250	17.3	31.0	66.4	63.4	47.3	44.3
300	17.3	34.20	65.2	62.2	45.8	42.8
600	17.3	45.30	61.9	58.9	41.3	38.3
600	17.3	50.10	60.7	57.7	39.7	36.7

Part Number	Size	Jacket type	AWG	Reel	Color
CU 590.LSZH	4P	LSZH	23	500m	Blue, Red, Orange, Gray, Purple, Yellow


**CAT6A S/FTP CABLE (OUTDOOR)-500MHZ**

**Structure:**

- 23 AWG solid copper conductors
- Aluminum foil around each pairs
- Braid around four pairs
- PE jacket
- Foam/Skin PE insulation

**Standard:**

- EN 50173
- EN 50288
- ISO 11801
- IEC 61156-5
- TIA 568.2

**Applications:**

- Data cable for structured premises cabling.
- For the transmission for digital and analogue voice, video and data signals.
- Suitable for all ICT network applications up to class E up to 10 Gb E acc
- Applicable for Power over Ethernet (PoE)/ PoE+.
- ISO/IEC 11801 and EN 50173

**Mechanical characteristics:**

- Bending radius: During installation:  $\geq 65$  mm  
permanently installed:  $\geq 30$  mm
- Tensile strength:  $\geq 95$  N
- Crush resistance:  $\geq 1000$  N/10 cm
- Impact:  $\geq 10$  impacts
- Temperature range: during installation: 0°C to +50°C
- In operation: -20°C to +60°C

**Chemical characteristics:**

- Free of hazardous substance- acc Rohs 2002/95/EG

**Thermal characteristics:**

- Temperature range for fixed installation: -20°C up to +60°C
- Temperature range for mobile operation: -0°C up to +50°C

Frequency (Mhz)	ReturnLoss (dB)	Attenuation (dB/100m)	NEXT (dB)	PS NEXT (dB)	EL FEXT (dB/100m)	PS ELFEXT (dB/100m)
1	20.0	2.10	74.3	72.3	67.8	64.8
4	23.0	3.80	65.3	63.3	55.8	52.8
20	25	8.40	54.8	52.8	41.8	38.8
25	24.3	9.40	53.3	61.3	39.8	36.8
31.25	23.6	10.50	51.9	49.9	37.9	34.9
62.5	21.5	15.00	47.4	45.4	31.9	38.8
100	20.1	19.10	44.3	42.3	27.8	24.8
250	17.3	31.1	38.3	36.3	19.8	16.8
300	16.8	34.3	37.1	35.1	18.3	15.3
500	15.2	45.3	33.8	31.8	13.8	10.8

Part Number	Size	Jacket type	AWG	Reel	Color
CU 570.PE	4P	PE	23	500m	Black





CAT7 S/FTP CABLE (INDOOR)-600MHZ



**Structure:**

- 23 AWG solid copper conductors
- Aluminum foil around each pairs
- Braid around four pairs
- PVC/LSZH jacket

**Standard:**

- EN 50173
- EN 50288
- ISO 11801
- IEC 61156-5
- TIA 568.2
- EN 50575
- IEC 60332
- IEC 61034
- IEC 60754

**Applications:**

- Installation cable for generic cabling systems acc.
- ISO/IEC 11801 and EN 50173 (2. edition)
- Ideal for all application of classes D up to F Multimedia
- (TV, Video, Data, Voice) up to 10GbE IEEE 802.3 an, cable sharing, VOIP, PoE.

**Chemical characteristics:**

- Free of hazardous substances acc. to RoHS 2002/95/EG

**Mechanical characteristics:**

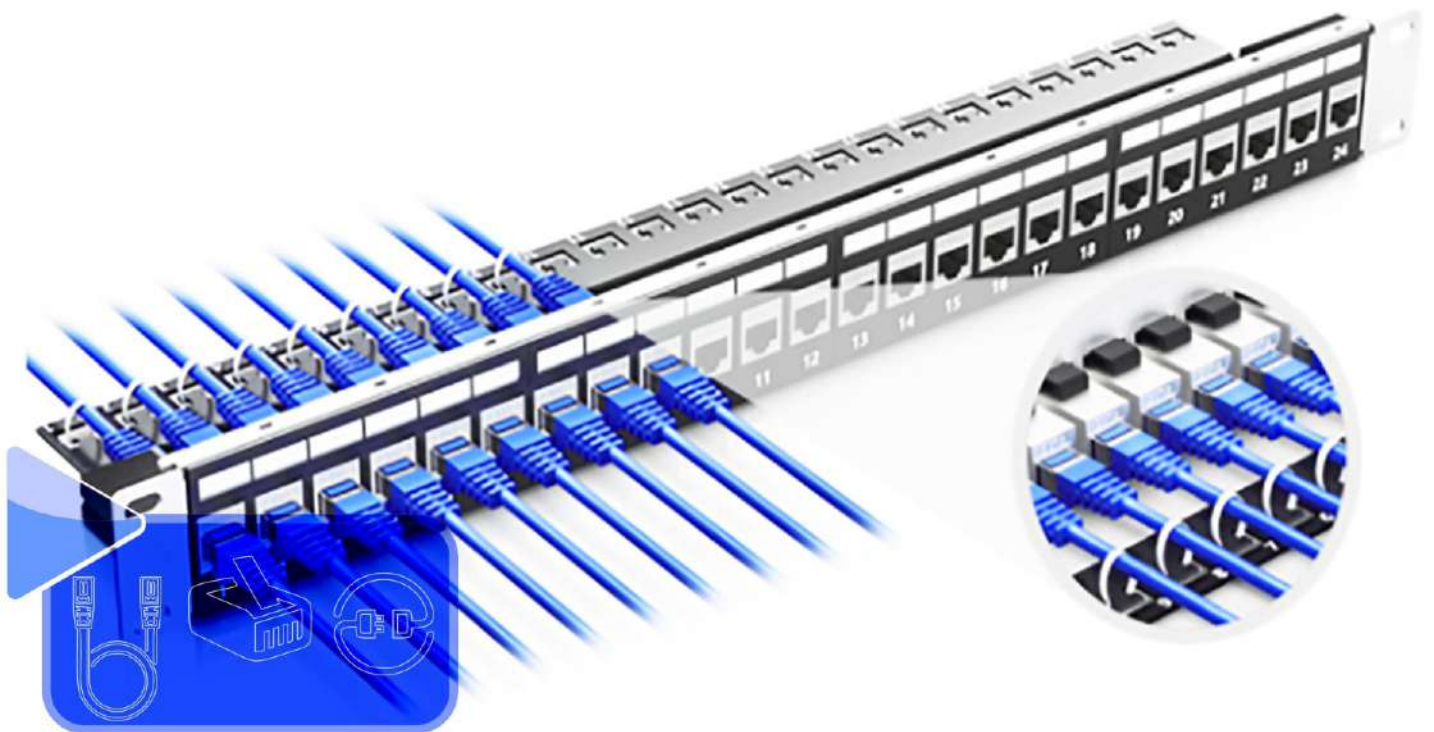
- Bending radius: During installation: 8 x overall Diameter (min.) & after.
- Installation: 4 x overall Diameter (min)
- Tensile strength: 110 (max.), Crush (N/100 mm): 1,000 Impact (number of shocks): 10

**Thermal characteristics:**

- Temperature range for fixed installation: -20°C up to +60°C
- Temperature range for mobile operation: 0°C up to +50°C

Frequency (Mhz)	ReturnLoss (dB)	Attenuation (dB/100m)	NEXT (dB)	PS NEXT (dB)	EL FEXT (dB/100m)	PS ELFEXT (dB/100m)
4	23.0	3.70	78	75	78	75
8	24.5	5.20	78	75	77.2	74.2
16	25	7.40	78	75	71.2	68.2
26	24.3	9.30	78	75	67.3	64.2
62.5	21.5	14.90	75.5	72.5	59.4	62.4
100	20.1	19.0	72.4	69.4	55.3	52.3
250	17.3	31.0	66.4	63.4	47.3	44.3
300	17.3	34.20	65.2	62.2	45.8	42.8
600	17.3	45.30	61.9	58.9	41.3	38.3
600	17.3	50.10	60.7	57.7	39.7	36.7

Part Number	Size	Jacket type	AWG	Reel	Color
CU 590.LSZH	4P	LSZH	23	500m	Blue, Red, Orange, Gray, Purple, Yellow



# COPPER ACCESSORIES

- ▶ RJ 45 PATCH CORDS
- ▶ KEYSTONES
- ▶ PATCH PANELS
- ▶ PHONE PANELS
- ▶ FACEPLATES

**RJ 45 PATCH CORD CAT6 UTP LSZH-250 MHZ**



**Electrical performance:**

- Cable impedance 100Ω
- Insulation re-sistance (500V) > 500 MΩ/km
- Test voltage (DC,1 min) 100.500 V
- NPV (nominal) 1.5 A (maximum)
- Current rating 75 V
- Voltage rating

**Environmental Compliance:**

- Fire performance IEC 60332-1, IEC 61034-2
- Operating temperature IEC 60754-1, IEC 60754-2
- Transport and storage temperature 20° C to 60° C
- 0° C to 50° C

**Mechanical specifications:**

- Cable diameter (OD) 5.50±0.03(mm)
- Copper diameter wire gauge AWG27(0.36mm)
- Minimum bend radius Static bending 4x00
- Dynamic bending 8x00

**Description:**

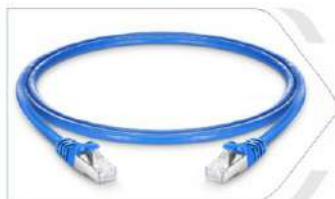
- Soha's unshielded Cat.6 Rj45 patch cords and connection cables (up to 250 Mhz) are fitted with a shielded Rj45 pluge and a coloured moulded anti-s snag boots on both ends.
- Plugs and anti-s snag boots from one unit.
- The shielded Rj45 plugs provide for better performance.
- The CU 602 4P flex cable is suitable for transmission rates up to 250 Mhz.

**Standard:**

- YD/T 926.3-2009
- ISO/IEC 11801:2017
- TIA-568.2-D:2018
- EN 50177

LENGHT (M)	YELLOW	GRAY	PURPLE	ORANGE	RED	BLUE
0.5	PC 6- U 1000	PC 6- U 1100	PC 6- U 1200	PC 6- U 1300	PC 6- U 1400	PC 6- U 1500
1	PC 6- U 1001	PC 6- U 1101	PC 6- U 1201	PC 6- U 1301	PC 6- U 1401	PC 6- U 1501
2	PC 6- U 1002	PC 6- U 1102	PC 6- U 1202	PC 6- U 1302	PC 6- U 1402	PC 6- U 1502
3	PC 6- U 1003	PC 6- U 1103	PC 6- U 1203	PC 6- U 1303	PC 6- U 1403	PC 6- U 1503
4	PC 6- U 1004	PC 6- U 1104	PC 6- U 1204	PC 6- U 1304	PC 6- U 1404	PC 6- U 1504
5	PC 6- U 1005	PC 6- U 1105	PC 6- U 1205	PC 6- U 1305	PC 6- U 1405	PC 6- U 1505
6	PC 6- U 1006	PC 6- U 1106	PC 6- U 1206	PC 6- U 1306	PC 6- U 1406	PC 6- U 1506
7	PC 6- U 1007	PC 6- U 1107	PC 6- U 1207	PC 6- U 1307	PC 6- U 1407	PC 6- U 1507
8	PC 6- U 1008	PC 6- U 1108	PC 6- U 1208	PC 6- U 1308	PC 6- U 1408	PC 6- U 1508
9	PC 6- U 1009	PC 6- U 1109	PC 6- U 1209	PC 6- U 1309	PC 6- U 1409	PC 6- U 1509
10	PC 6- U 1010	PC 6- U 1110	PC 6- U 1210	PC 6- U 1310	PC 6- U 1410	PC 6- U 1510




**RJ 45 PATCH CORD CAT6A SFTP LSZH-500 MHZ**

**Electrical performance:**

- Cable impedance 100Ω
- Insulation re-sistance (500 V) ≥ 500 M /k/m
- Test voltage (DC, 1 min) 100.500 V
- NPV (nominal) 78%
- Current rating 1.5A (maximum)
- Voltage rating 75 V

**Environmental Compliance:**

- Fire performance IEC 60332-1, IEC 61034-2
- Operating temperature IEC 60754-1, IEC 60754-2
- Transport and storage temperature 20°C to 60°C
- temperature 0°C to 50°C

**Mechanical specifications:**

- Cable diameter (OD) 5.50 ±0.03 (mm)
- Copper diameter Wire gauge AWG 27 (0.36 mm)
- Minimum bend radius Static bending: 4·OD
- Dynamic bending: 8·OD

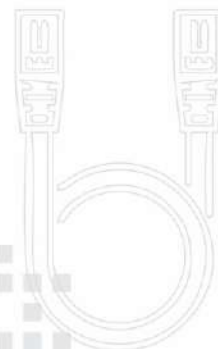
**Description:**

- Shielded patch cords and connection cables with shielded RJ45 plug on both ends, fitted with an overmoulding and an anti-slug boot in the same colour as the cable sheath and with latch protection. The cable CU 540 flex 4P (CAT.6A) offers excellent NEXT and impedance values due to the individually foil screened pairs (Pimf) Due to the overall copper braid, the patch cables have an excellent screen performance and are highly flexible. They are optimized for the transmission of CATV signals up to 826 MHz. The patch cords meet all the requirements of Category 6A (IEC) and the limit values stipulated for Class E<sub>x</sub> cabling links (Channels) for 10GBase-T applications. Standard assortment: from 0.5 m up to 20 m. Customised adjustments (anti-slug boot, termination, label) are available at short notice.

**Standard:**

- YD/T 926.3-2009
- ISO/IEC 11801:2017
- TIA-568.2-D:2018
- EN 50177

LENGHT (M)	PURPLE	YELLOW	GRAY	ORANGE	RED	BLUE
0.5	PC6A-S 2000	PC6A-S 2100	PC6A-S 2200	PC6A-S 2300	PC6A-S 2400	PC6A-S 2500
1	PC6A-S 2001	PC6A-S 2101	PC6A-S 2201	PC6A-S 2301	PC6A-S 2401	PC6A-S 2501
2	PC6A-S 2002	PC6A-S 2102	PC6A-S 2202	PC6A-S 2302	PC6A-S 2402	PC6A-S 2502
3	PC6A-S 2003	PC6A-S 2103	PC6A-S 2203	PC6A-S 2303	PC6A-S 2403	PC6A-S 2503
4	PC6A-S 2004	PC6A-S 2104	PC6A-S 2204	PC6A-S 2304	PC6A-S 2404	PC6A-S 2504
5	PC6A-S 2005	PC6A-S 2105	PC6A-S 2205	PC6A-S 2305	PC6A-S 2405	PC6A-S 2505
6	PC6A-S 2006	PC6A-S 2106	PC6A-S 2206	PC6A-S 2306	PC6A-S 2406	PC6A-S 2506
7	PC6A-S 2007	PC6A-S 2107	PC6A-S 2207	PC6A-S 2307	PC6A-S 2407	PC6A-S 2507
8	PC6A-S 2008	PC6A-S 2108	PC6A-S 2208	PC6A-S 2308	PC6A-S 2408	PC6A-S 2508
9	PC6A-S 2009	PC6A-S 2109	PC6A-S 2209	PC6A-S 2309	PC6A-S 2409	PC6A-S 2509
10	PC6A-S 2010	PC6A-S 2110	PC6A-S 2210	PC6A-S 2310	PC6A-S 2410	PC6A-S 2510



PATCH PANEL UNLOADED UNSHIELDED



**Description:**

- Copper patch panels are modular and provide an aesthetically pleasing solution for housing modular jacks. These lightweight aluminium panels are compatible with RJ45 jacks as well as typical industry-accepted modular jacks. The classic version includes a cable-strain-relief tray and earth-connection point. The ECO panels are a simple version without an earth-connection point, to use with racks with integral cable management. The panels include screws, cage nuts, and cable ties. Port blanking and coloured identification caps are available. The range includes a patch cord management panel with five management rings.

**Standard:**

- YD/T 926.3-2009
- ISO/IEC 11801:2017
- TIA-568-2-D:2018

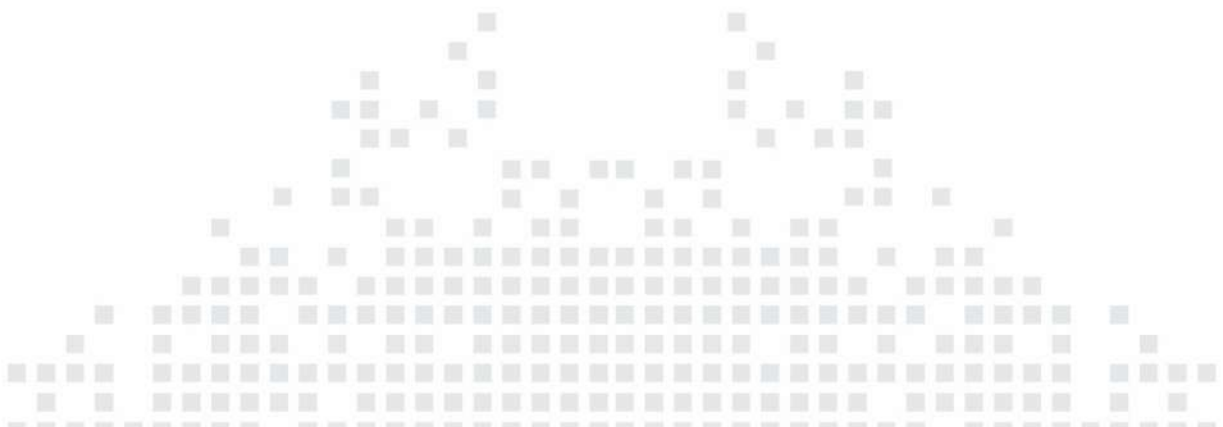
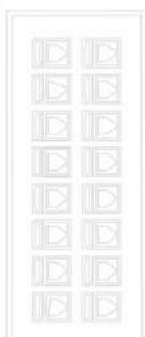
**Dimensions:**

- Width: 482 mm (19")
- Depth: 80 mm (including cable strain relief)
- Height: 44 mm (1U)

**Applications:**

- Unshielded 19"/1U patch panel for up to 24 RJ45 Keystone modules KU-T 1/8, Unshielded in accordance with Cat. 6 (UTP). Snap-in modules can be easily fitted into the patch panel. Unused ports can be covered with blank covers.

Part Number	Description	PU
PP-U-100	Patch panel KU 24x19"/1U, for 24xRJ45 Keystone module UTP (delivery without modules)	1 pcs.
PP-U-110	Patch panel KU 0/8 48x19"/1U, for 48xRJ45 Keystone module UTP (delivery without modules)	1 pcs.





KEYSTONE CAT 6A SFTP (SHIELDED)



**Description:**

- Housing made of high-impact resistant, flame retardant compound, UL94V-0 rated, with Keystone mounting clip. Contact spring with phosphor bronze alloy plated with gold. IDC made of phosphor bronze alloy.

**Applications:**

- For the transmission for digital and analogue voice, video and data signals.
- The module KS-T exceeds the IEC 60603-7-5 standard s requirements up to 500 MHz when combined with Cat. 7 or Cat.7 data cables. Therefore it is applicable for 10-gigabit Ethernet transmissions in accordance with IEEE 802.3. Useable for Power over Ethernet Plus (PoE+) corresponding to IEEE 802.3at.

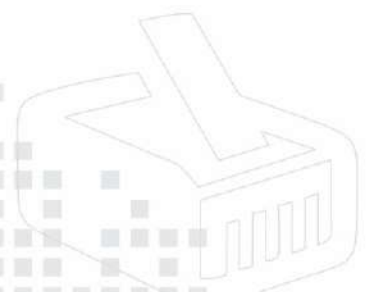
**Standard:**

- YD/T 926.3-2009
- ISO/IEC 11801:2017
- TIA-568-2-D:2018

**Mechanical characteristics:**

- Solid copper wire: 0.4 mm (AWG26) TO 0.65mm (AWG22) for AWG 22, AWG 24 when using the same or bigger wire diameter
- Stranded copper wire: AWG 26(with 7 bare stranded wires), re-usable once  
Diameter over insulation: 0.70 mm to 1.40 mm (1.60 mm)  
Temperature range Storing: -40°C to + 70°C  
During installation: -10°C to + 60°C  
In operation: -20°C to + 60°C

Part Number	Description	PU
KS-S6A-200	Rj45 module Cat6A Shielded with clast shutter	1 PCS



**PATCH PANEL UNLOADED UNSHIELDED**



**Description:**

- Copper patch panels are modular and provide an aesthetically pleasing solution for housing modular jacks. These lightweight aluminium panels are compatible with RJ45 jacks as well as typical industry-accepted modular jacks. The classic version includes a cable-strain-relief tray and earth-connection point. The ECO panels are a simple version without an earth-connection point, to use with racks with integral cable management. The panels include screws, cage nuts, and cable ties. Port blanking and coloured identification caps are available. The range includes a patch cord management panel with five management rings.

**Standard:**

- YD/T 926.3-2009
- ISO/IEC 11801:2017
- TIA-568-2-D:2018

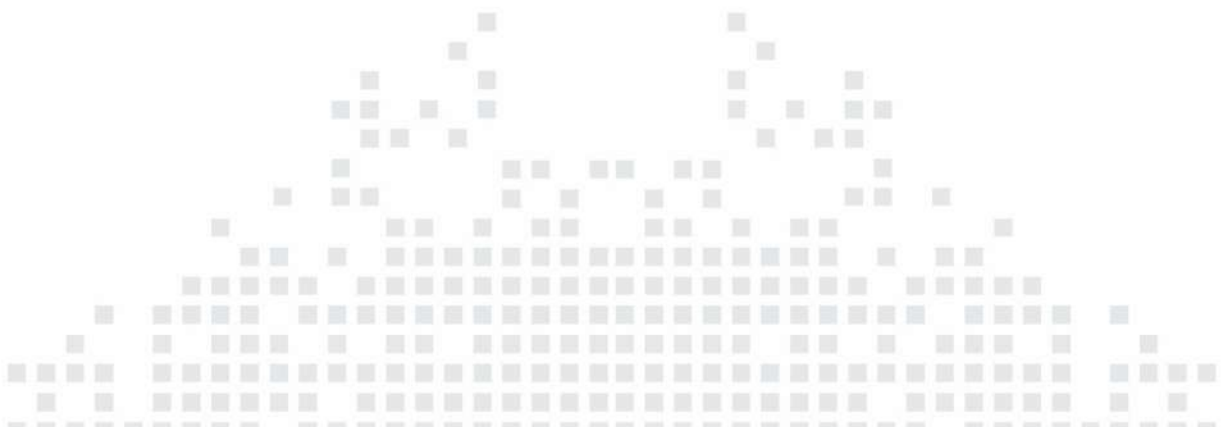
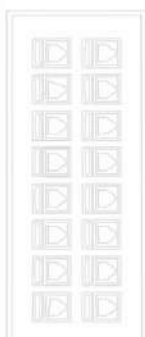
**Dimensions:**

- Width: 482 mm (19")
- Depth: 80 mm (including cable strain relief)
- Height: 44 mm (1U)

**Applications:**

- Unshielded 19"/1U patch panel for up to 24 RJ45 Keystone modules KU-T 1/8, Unshielded in accordance with Cat. 6 (UTP). Snap-in modules can be easily fitted into the patch panel. Unused ports can be covered with blank covers.

Part Number	Description	PU
PP-U-100	Patch panel KU 24x19"/1U, for 24xRJ45 Keystone module UTP (delivery without modules)	1 pcs.
PP-U-110	Patch panel KU 0/8 48x19"/1U, for 48xRJ45 Keystone module UTP (delivery without modules)	1 pcs.




**PATCH PANEL UNLOADED SHIELDED**

**Description:**

- Copper patch panels are modular and provide an aesthetically pleasing solution for housing modular jacks. These lightweight aluminium panels are compatible with RJ45 jacks as well as typical industry-accepted modular jacks. The classic version includes a cable-strain-relief tray and earth-connection point. The ECO panels are a simple version without an earth-connection point, to use with racks with integral cable management. The panels include screws, cage nuts, and cable ties. Port blanking and coloured identification caps are available. The range includes a patch cord management panel with five management rings.

**Applications:**

- Shielded 19"/1U patch panel for up to 24 modules with Keystone fitting unused ports can be covered with blank covers.

**Standard:**

- YD/T 926.3-2009
- ISO/IEC 11801:2017
- TIA-568-2-D:2018

**Dimensions:**

- Width: 482 mm (19")
- Depth: 160 mm (including cable strain relief)
- Height: 44 mm (1U)

Part Number	Description	PU
PP-S-200	Patch panel KS 24 x 19"/1U, for 24 x RJ45 Keystone module SFTP (delivery without modules)	1 pcs
PP-S-210	Patch panel KS 48 x 19"/1U, for 48 x RJ45 Keystone module SFTP (delivery without modules)	1 pcs





**PATCH PANEL FULL LOAD UNSHIELDED**



**Description:**

- Copper patch panels are modular and provide an aesthetically pleasing solution for housing modular jacks. These lightweight aluminium panels are compatible with RJ45 jacks as well as typical industry-accepted modular jacks. The classic version includes a cable-strain-relief tray and earth-connection point. The ECO panels are a simple version without an earth-connection point, to use with racks with integral cable management. The panels include screws, cage nuts, and cable ties. Port blanking and coloured identification caps are available.

**Applications:**

- Unshielded 19"/1U patch panel for the transmission of digital and analogue voice, video and data signals. Especially suited for all Class E applications in accordance with ISO/IEC 11801. Applicable for power over Ethernet (PoE)+ in accordance with IEEE 802.3at.

**Standard:**

- YD/T 926.3-2009
- ISO/IEC 11801:2017
- TIA-568-2-D:2018

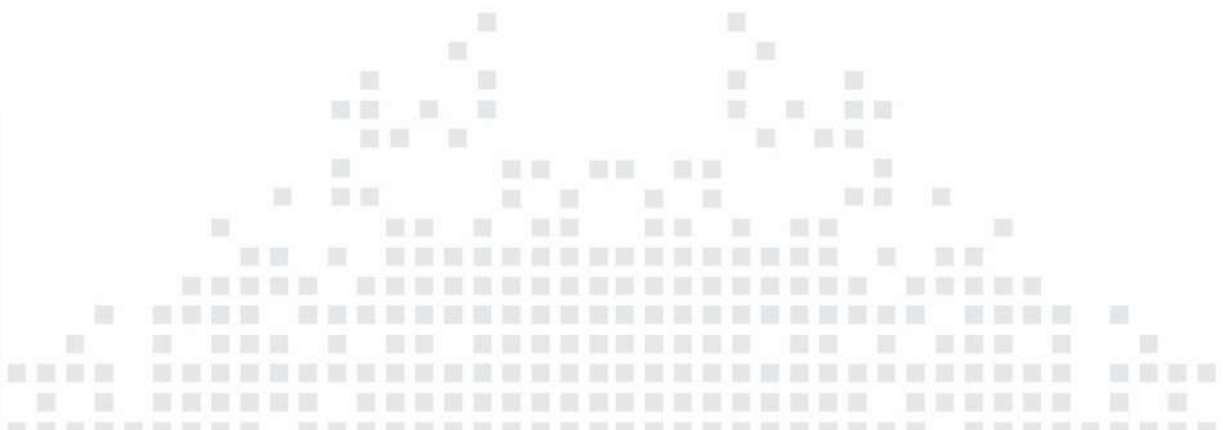
**Construction:**

- Housing: Solid metal, black, similar to RAL 9005
  - Strain relief: with tie wrap
  - Dimensions: 19"/1U, WxDxH=482 mmx96 mmx44 mm
- A termination aid is available as an accessory. This consists of two angular sheets that can easily be fixed to the frame or cabinet and make the cable termination more comfortable.

**Connection System:**

- Cable: LSA Plus punch down contacts.
- Socket: Unshielded RJ45 connector (Cat.6, 250 MHz)

Part Number	Description	PU
PP-FU-300	Patch panel CUP 24/8 Cat.6 unshielded	1 pcs.




**PHONE PANEL 25/50 UNSHIELDED**

**Description:**

- Housing: Metal, grey, similar to RAL 7035
- Dimensions:  
19"/1U, W×D×H=482 mm×129 mm×44 mm

**Applications:**

- Unshielded 19"/1U phone for the transmission of digital (ISDN) and analogue voice signals
- Especially suitable for all Class C applications in accordance with EN 50173-1 and ISO/IEC 11801.
- The patch panels support cables up to 50 or 100 pairs (telephone cables).
- A maximum of four wires may be connected to one RJ45 SOCKET
- A termination aid is available as an optional accessory This consists of two angular sheets that can easily be fixed to the frame or cabinet and make the cable termination more comfortable. For more accessories see below.

**Standard:**

- YD/T 926.3-2009
- ISO/IEC 11801:2017
- TIA-568-2-D:2018

**Applicable Standards:**

- IEC 60603-7 (RJ45 basic Standard unshielded)
- ISO/IEC 11801:2002 / Amd.2:2010
- EN 50173-1:2011
- TIA/EIA 568-B.2-10:2008

**Termination:**

- 2-pairs to PIN 3-6, 4-5

Part Number	Description	PU
PP-25	Phone panel CU 25/4 with 25×RJ45 jack, Cat. 3, metal chassis	1 pcs.
PP-50	Phone panel CU 50/4 with 25×RJ45 jack, Cat. 3, metal chassis	1 pcs.



FACEPLATES



**Description:**

- Faceplates are compatible with most Electrical wall boxes and are available in two-port and four-port versions. These faceplates fit common European dimensions and are compatible with RJ45 modular jacks. Port icons for port identification. As well as label windows are included in some products.

Part Number	Description	Colour	PU
FP-100	45 x 45 mm Modular Faceplate for 1 jack	White	1 PCS
FP-101	45 x 45 mm Modular Faceplate for 2 jack	White	1 PCS
FP-102	45 x 45 mm Angled Modular Faceplate for 1 jack	White	1 PCS
FP-103	45 x 45 mm Angled Modular Faceplate for 2 jack	White	1 PCS
FP-104	22.5 x 45 mm Modular Faceplate for 2 jack	White	1 PCS



**FIBER OPTIC CABLES**

FIBER OPTIC CENTRAL LOOSE TUBE NON-METALLIC STRENGTH MEMBER NON-ARMORED CABLE	FIBER OPTIC STRANDED LOOSE TUBE NON-METALLIC STRENGTH MEMBER NON-ARMORED CABLE	FIBER OPTIC MULTI-PURPOSE DISTRIBUTION CABLE	FIBER OPTIC SELF-SUPPORTING BOW-TYPE DROP CABLE	FIBER OPTIC BOW TYPE DROP CABLE	
FIBER OPTIC CENTRAL LOOSE TUBE NON-METALLIC STRANDED MEMBER NON-ARMORED CABLE	FIBER OPTIC CENTRAL LOOSE TUBE NON-METALLIC STRENGTH MEMBER ARMORED CABLE	FIBER OPTIC STRANDED LOOSE TUBE ARMORED CABLE	FIBER OPTIC STRANDED LOOSE TUBE NON-ARMORED CABLE	FIBER OPTIC CENTRAL LOOSE TUBE LIGHT-ARMORED CABLE	FIBER OPTIC STRANDED LOOSE TUBE LIGHT-ARMORED CABLE

**FIBER OPTIC ADAPTERS**

FIBER OPTIC ADAPTER LC	FIBRE OPTIC ADAPTER SC

**FIBER OPTIC PATCH PANELS**

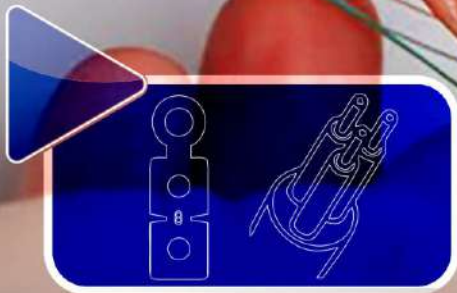
FIBER OPTIC PATCH PANEL UNLOADED UNSHIELDED	FIBER OPTIC PATCH PANEL FULL LOADED UNSHIELDED

**FIBER OPTIC PIGTAILS**

FIBER OPTIC PIGTAILS SCD/LCD

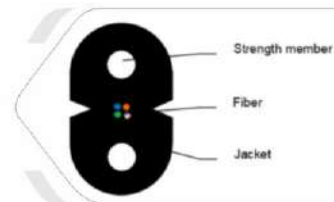
**FIBER OPTIC PATCH CORDS**

FIBER OPTIC (OS2/OM3/OM4) SCD-SCD	FIBER OPTIC (OS2/OM3/OM4) SCD-LCD	FIBER OPTIC (OS2/OM3/OM4) LCD-LCD



# FIBER OPTIC CABLES

- ▶ BOW TYPE DROP CABLE
- ▶ SELF-SUPPORTING BOW-TYPE DROP CABLE
- ▶ MULTI-PURPOSE DISTRIBUTION CABLE
- ▶ STRANDED LOOSE TUBE NON-METALLIC STRENGTH MEMBER NON-ARMORED CABLE
- ▶ STRANDED LOOSE TUBE NON-ARMORED CABLE
- ▶ CENTRAL LOOSE LIGHT-ARMORED CABLE
- ▶ STRANDED LOOSE TUBE-LIGHT ARMORED CABLE
- ▶ STRANDED LOOSE TUBE ARMORED CABLE
- ▶ CENTRAL LOOSE TUBE TUBE NON-METALLIC STRENGTH MEMBER ARMORED CABLE
- ▶ CENTRAL LOOSE TUBE NON-METALLIC STRENGTH MEMBER NON-ARMORED CABLE
- ▶ CENTRAL LOOSE TUBE NON-METALLIC STRANDED NON-ARMORED CABLE


**FO.D1000  
BOW-TYPE DROP CABLE**

**Description:**

- The optical fiber unit is positioned in the center. Two parallel strength member (FRP/steel wire) are placed at the two side then, the cable is completed with black or white LSZH jacket.

**Standards:**

- YD/T 1997
- ICEA-596
- IEC 60794-2-10/11

**Applications:**

- FTTX drop cable (indoor lead-in)

**Characteristics:**

- Special low-bend-sensitivity fiber provides high bandwidth and excellent communication transmission property.
- Two parallel FRP/Steel wire strength members ensure good performance of crush resistance to protect the fiber.
- Simple structure, light weight and high practicability
- Novel flute design, easily strip and splice, simplify the installation and maintenance;
- Low smoke, zero halogen and flame retardant jacket.
- Simple structure, light weight and high practicability

**Fiber Characteristics**

Item	Performance index
Fiber type	G652D/G657A1/G657A2
Mode field diameter @ 1310nm	(8.6~9.5)±0.6um
Cladding diameter	125±1um
Attenuation @ 1310 nm	≤0.4dB/km
Attenuation @ 1550 nm	≤0.3dB/km

**Cable Characteristics**

Item	Requirement		
Fiber number	1	2	4
Fiber color	BU	BU/OR	BU
Strength member	FRP or steel wire		
Jacket material	Black or White LSZH		
Cable size (mm)	(2.0±0.1)×(3.0±0.1)		
Cable weight (kg/km)	GJXFH:8.0 GJXH:9.0		
Tensile (N) Long Term	40N		
Tensile (N) Short Term	80N		
Crush (N/100mm) Long Term	500N		
Crush (N/100mm) Short Term	1000N		
Bending Radius(mm) STATIC	30D		
Bending Radius(mm) Dynamic	60D		

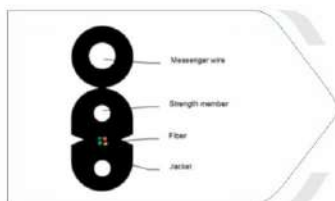
Transport/Storage/Operating Temperature:-20°C~+60°C

Installation Temperature:-5°C~+50°C



FO. D2000

SELF-SUPPORTING BOW-TYPE DROP CABLE



**Description:**

- The optical fiber unit is positioned in the center. Two parallel strength member (FRP/steel wire) are placed at the two sides, the cable is completed with a black LSZH jacket.

**Standards:**

- YD/T 1997
- ICEA-596
- IEC 60794-2-10/11

**Applications:**

- FTTX drop cable (outdoor aerial lead-in)

**Characteristics:**

- Single steel wire as the additional strength member ensures good performance of protect the fiber.
- Special low-bend-sensitivity fiber provides high bandwidth and excellent communication transmission property.
- Two parallel FRP/Steel wire strength members ensure good performance of crush resistance to protect the fiber
- Novel flute design, easily strip and splic, simplify the installation and maintenance;
- Low smoke, zero halogen and flame retardant jacket

Fiber Characteristics

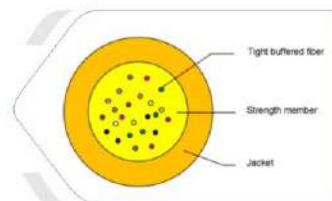
Item	Performance index
Fiber type	G652D/G657A1/G657A2
Mode field diameter @ 1310nm	(8.6~9.5)±0.6um
Cladding diameter	125±1um
Attenuation @ 1310 nm	≤0.4dB/km
Attenuation @ 1550 nm	≤0.3dB/km

Cable Characteristics

Item	Requirement		
	1	2	4
Fiber number	1	2	4
Fiber color	BU	BU/OR	BU/OR/GN/E
Messenger wire	1.0mm steel wire		
Strength member	FRP or steel wire		
Jacket material	Black LSZH		
Cable size (mm)	(2.0±0.2) x (5.2±0.2)		
Cable weight (kg/km)	GJXFCH:18 GJYXCH:19		
Tensile (N) Long Term	300N		
Tensile (N) Short Term	600N		
Crush (N/100mm)Long Term	1000N		
Crush (N/100mm)Short Term	2000N		
Bending Radius(mm) STATIC	30D		
Bending Radius(mm) Dynamic	60D		

Transport/Storage/Operating Temperature:-20°C~+60°C Installation Temperature:-5°C~+50°C




**FO.C-I  
MULTI-PURPOSE DISTRIBUTION CABLE**

**Description:**

- $\varnothing$ 900  $\mu$ m flame-retardant tight buffered fiber as optical communication medium, wrapped with a layer of aramid yarn as strength member. The cable is completed with PVC or LSZH jacket. The color can be agreed.

**Standards:**

- YD/T 1258.4
- ICEA-596
- IEC 60794-2-20/21

**Applications:**

- Multi optical fiber jumper. Indoor multi purpose distribution cable Backbone distribution cable in building.

**Characteristics:**

- Tight buffer fiber have excellent flame-retardant performance.
- Aramid yarn as strength member making cable have excellent tensile strength performance
- Excellent performance of anti-torsion
- The outer jacket material has many advantages such as anti-corrosion, waterproof, anti-ultraviolet radiation, flame-retardant and harmless to environment etc.
- All dielectric structure protect cable from electromagnetic influence.

**Fiber Characteristics**

Item	Performance index					
	G652/G657	62.5/125 OM1	50/125 OM2	50/125 OM3/150	50/125 OM3/300	50/125 OM4/550
Attenuation dB/km@1310nm	$\leq 0.4$	/	/	/	/	/
Attenuation dB/km@1550nm	$\leq 0.3$	/	/	/	/	/
Attenuation dB/km@850nm	/	$\leq 3.5$				
Attenuation dB/km@1300nm	/	$\leq 1.5$				
Bandwidth Mhz*km@850nm	/	200	500	700	1500	3500
Bandwidth Mhz*km/km@1300nm	/	500	500	500	500	500

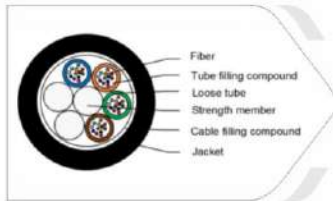
**Cable Characteristics**

Item	Requirement					
Fiber color	1-12: BU/OR/GN/BN/GY/WH/RD/BK/YE/VT/PK/AQ 13-24: Colored and black ring					
Tight buffer	0.85 $\pm$ 0.05mm PVC or LSZH					
Strength member	Aramid yarn					
Jacket material	PVC or LSZH					
Fiber number	4	6	8	12	16	24
Cable size (mm)	4.4 $\pm$ 0.3	4.8 $\pm$ 0.3	5.6 $\pm$ 0.3	6.3 $\pm$ 0.3	7.5 $\pm$ 0.3	8.5 $\pm$ 0.3
Cable weight (kg/km)	Long Term:130N / Short Term:440N					
Tensile (N)	Long Term:130N / Short Term:440N					
Crush (N/100mm)	Long Term:200N / Short Term:1000N					
Bending Radius(mm)	Static10D / Dynamic20D					

Transport/ Storage/ Operating Temperature: -20°C-+60°C. Installation Temperature: -5°C-+50°C



FO.C-J  
STRANDED LOOSE TUBE NON-METALLIC  
STRENGTH MEMBER NON-ARMORED CABLE



**Description:**

The fibers are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water resistant filling compound. Fiber reinforced Plastic (FRP) locates in the center of core as a non-metallic strength member. The tubes (and fillers) are stranded around the strength member into a compact and circular core. After the cable core is filled with filling compound to protect it from water ingress, the cable is completed with black PE or LSZH jacket.

**Standards:**

- YD/T 901
- IEC60794-3

**Characteristics:**

- Good mechanical and temperature performance.
- High strength loose tube that is hydrolysis resistant. Special tube filling compound ensure a critical protection of fiber
- Loose tube and cable are filled compound
- Non-metallic structure to avoid electromagnetic injury

**Applications:**

- Duct, Lashed aerial

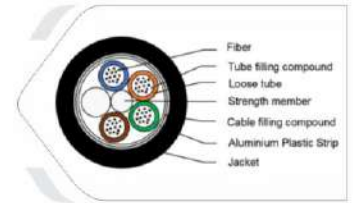
Fiber Characteristics

Item	Performance index					
	G652/G657	62.5/125 OM1	50/125 OM2	50/125 OM3/150	50/125 OM3/300	50/125 OM4/550
Attenuation dB/km@1310nm	≤0.4	/	/	/	/	/
Attenuation dB/km@1550nm	≤0.3	/	/	/	/	/
Attenuation dB/km@850nm	/	≤3.5				
Attenuation dB/km@1300nm	/	≤1.5				
Bandwidth Mhz+km@850nm	/	200	500	700	1500	3500
Bandwidth Mhz+km/km@1300nm	/	500	500	500	500	500

Cable Characteristics

Item	Requirement
Fiber color	BU/OR/GN/BN/GY/WH/RD/BK/YE/VT/PK/AQ
Tight buffer	FRP
Strength member	Black PE or LSZH
Jacket material	4\6\8\12\24\36      48\60\72      96      144
Fiber number	9.0±0.2      9.5±0.2      11.2±0.2      13.5±0.2
Cable size (mm)	73±5      80±5      110±5      155±5
Cable weight (kg/km)	Long Term:130N / Short Term:440N
Tensile (N)	Long Term:600N / Short Term:1000N
Crush (N/100mm)	Long Term:300N / Short Term:1000N
Bending Radius(mm)	Static12.5D / Dynamic25D

Transport/ Storage/ Operating Temperature: -40°C+60°C


**FO.C-K**
**STRANDED LOOSE TUBE NON-ARMORED CABLE**

**Description:**

- The fibers are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water resistant filling compound. A steel wire, sometimes sheathed with polyethylene (PE) for cable with high fiber count, locates in the center of core as a metallic strength member. Tubes (and fillers) are stranded around the strength member into a compact and circular cable core. An Aluminum plastic strip (APS) is applied around the cable core, which is filled with the filling compound to protect it from water ingress. Then, the cables is completed with PE or LSZH jacket.

**Standards:**

- YD/T 901
- IEC60794-3

**Characteristics:**

- Good mechanical and temperature performance.
- High strength loose tube that is hydrolysis resistant.
- Special tube filling compound ensure a critical protection of fiber
- PE sheath protects cable from ultraviolet radiation
- Loose tube and cable are filled compound
- ASP can ensure the cable waterproof.

**Applications:**

- Duct, Lashed aerial

**Fiber Characteristics**

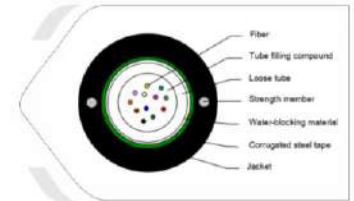
Item	Performance index					
	G652/G657	62.5/125 OM1	50/125 OM2	50/125 OM3/150	50/125 OM3/300	50/125 OM4/550
Attenuation dB/km@1310nm	≤0.4	/	/	/	/	/
Attenuation dB/km@1550nm	≤0.3	/	/	/	/	/
Attenuation dB/km@850nm	/	≤3.5				
Attenuation dB/km@1300nm	/	≤1.5				
Bandwidth Mhz+km@850nm	/	200	500	700	1500	3500
Bandwidth Mhz+km/km@1300nm	/	500	500	500	500	500

**Cable Characteristics**

Item	Requirement					
Fiber / Tube color	BU/OR/GN/BN/GY/WH/RD/BK/YE/VT/PK/AQ					
Strength member	Steel wire					
Jacket material	PE or LSZH					
Fiber number	4\6\8\12\24\36	36\48\60	72	96	144	
Cable size (mm)	9.0±0.2	9.5±0.2	10.2±0.2	11.5±0.2	13.8±0.2	
Cable weight (kg/km)	73±5	85±5	105±5	125±5	170±5	
Tensile (N)	Long Term:130N / Short Term:440N					
Crush (N/100mm)	Long Term:300N / Short Term:1000N					
Bending Radius(mm)	Static 10D / Dynamic 20D					

Transport/ Storage/ Operating Temperature: -40°C~+60°C

FO.C-H  
CENTRAL LOOSE TUBE LIGHT-ARMORED CABLE



**Description:**

The fibers are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. The tube is wrapped with a layer of PSP longitudinally. Between the PSP and loose tube water blocking material is applied to keep the cable compact and water tight. Two parallel steel wires are placed at the two sides of the seal tape. The cable is completed with black PE or LSZH jacket.

**Characteristics:**

- Good mechanical and temperature performance.
- High strength loose tube that is hydrolysis resistant.
- Special tube filling compound ensure a critical protection of fiber
- Crush resistance and flexibility
- CST enhancing moisture-proof
- Two parallel steel wires ensure tensile strength
- Small diameter, light weight and friendly installation

**Applications:**

- Duct directly buried or lashed aerial

**Standards:**

- YD/T 769
- IEC60794-3

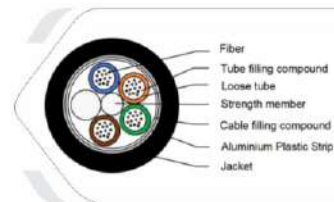
Fiber Characteristics

Item	Performance index					
Fiber type	G652/G657	62.5/125 OM1	50/125 OM2	50/125 OM3/150	50/125 OM3/300	50/125 OM4/550
AttenuationdB/km@1310nm	≤0.36	/	/	/	/	/
AttenuationdB/km@1550nm	≤0.22	/	/	/	/	/
AttenuationdB/km@850nm	/	≤3.5				
AttenuationdB/km@1300nm	/	≤1.5				
BandwidthMhz+km@850nm	/	200	500	700	1500	3500
BandwidthMhz+km/km@1300nm	/	500	500	500	500	500

Cable Characteristics

Item	Requirement
Fiber color	BU/OR/GN/BN/GY/WH/RD/BK/YE/VT/PK/AQ
Tube OD(mm)	2.0±0.2
Strength member	Steel wire
Jacket material	PE or LSZH
Cable size (mm)	7.4±0.3mm
Cable weight (kg/km)	PE:55±5    LSZH:70±5
Tensile (N)	Long Term:130N / Short Term:1000N
Crush (N/100mm)	Long Term:300N / Short Term:1000N
Bending Radius(mm)	Static10D / Dynamic20D

Transport/ Storage/ Operating Temperature: -40°C+60°C


**FO.C-M**
**STRANDED LOOSE TUBE LIGHT-ARMORED CABLE**

**Description:**

The fibers are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water resistant filling compound. A steel wire, sometimes sheathed with polyethylene (PE) for cable with high fiber count, locates in the center of core as a metallic strength member. Tubes (and fillers) are stranded around the strength member into a compact and circular cable core. Corrugated steel tape (CST) is applied around the cable core, which is filled with the filling compound to protect it from water ingress. Then, the cable is completed with PE or LSZH jacket.

**Standards:**

- YD/T 901
- IEC60794-3

**Characteristics:**

- Good mechanical and temperature performance.
- High strength loose tube that is hydrolysis resistant.
- Special tube filling compound ensure a critical protection of fiber
- PE sheath protects cable from ultraviolet radiation
- Loose tube and cable are filled compound
- Corrugated steel tape ensures compressive performance.

**Applications:**

- Duct, Lashed aerial

**Fiber Characteristics**

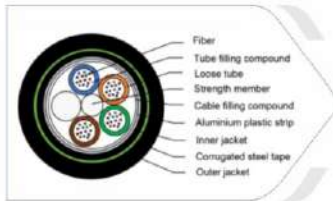
Item	Performance index					
	G652/G657	62.5/125 OM1	50/125 OM2	50/125 OM3/150	50/125 OM3/300	50/125 OM4/550
AttenuationdB/km@1310nm	≤0.36	/	/	/	/	/
AttenuationdB/km@1550nm	≤0.22	/	/	/	/	/
AttenuationdB/km@850nm	/	≤3.5				
AttenuationdB/km@1300nm	/	≤1.5				
BandwidthMhz+km@850nm	/	200	500	700	1500	3500
BandwidthMhz+km/km@1300nm	/	500	500	500	500	500

**Cable Characteristics**

Item	Requirement					
Fiber / Tube color	BU/OR/GN/BN/GY/WH/RD/BK/YE/VT/PK/AQ					
Strength member	Steel wire					
Jacket material	PE or LSZH					
Fiber number	4\6\8\12\24	36\48\60	72	96	144	
Cable size (mm)	9.0±0.2	9.5±0.2	10.2±0.2	11.5±0.2	13.8±0.2	
Cable weight (kg/km)	73±5	85±5	105±5	125±5	170±5	
Tensile (N)	Long Term:130N / Short Term:440N					
Crush (N/100mm)	Long Term:300N / Short Term:1000N					
Bending Radius(mm)	Static10D / Dynamic20D					

Transport/ Storage/ Operating Temperature: -40°C~+60°C

FO.C-O  
STRANDED LOOSE TUBE ARMORED CABLE



**Description:**

The fibers are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water resistant filling compound. A steel wire, sometimes sheathed with polyethylene (PE) for cable with high fiber count, locates in the center of core as a metallic strength member. Tubes (and fillers) are stranded around the strength member into a compact and circular cable core. An Aluminum plastic strip (APS) is applied around the cable core, which is filled with the filling compound to protect it from water ingress. Then the cable core is covered with a thin PE inner sheath. After the CST is longitudinally applied over the inner sheath, the cables is completed with PE or LSZH jacket.

**Standards:**

- YD/T 769
- IEC60794-3

**Characteristics:**

- Good mechanical and temperature performance.
- High strength loose tube that is hydrolysis resistant.
- Special tube filling compound ensure a critical protection of fiber
- Excellent compression resistance
- PE sheath protects cable from ultraviolet radiation
- Loose tube and cable are filled compound
- Corrugated steel tape ensures compressive performance

**Applications:**

- Direct buried

Fiber Characteristics

Item	Performance index						
	Fiber type	G652/G657	62.5/125 OM1	50/125 OM2	50/125 OM3/150	50/125 OM3/300	50/125 OM4/550
Attenuation dB/km@1310nm		≤0.36	/	/	/	/	/
Attenuation dB/km@1550nm		≤0.22	/	/	/	/	/
Attenuation dB/km@850nm		/			≤3.5		
Attenuation dB/km@1300nm		/			≤1.5		
Bandwidth Mhz+km@850nm		/	200	500	700	1500	3500
Bandwidth Mhz+km/km@1300nm		/	500	500	500	500	500

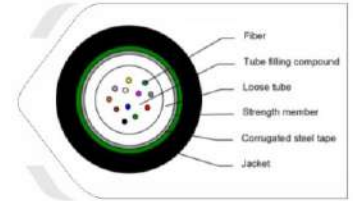
Cable Characteristics

Item	Requirement					
Fiber / Tube color	BU/OR/GN/BN/GY/WH/RD/BK/YE/VT/PK/AQ					
Strength member	Steel wire					
Inner jacket thickness	0.8±0.2 mm					
Outer jacket thickness	1.8±0.2 mm					
Fiber number	4\6\8\12\24	36\48\60	72	96	144	
Cable size (mm)	12.0±0.3	12.5±0.3	13.1±0.3	14.4±0.3	16.9±0.3	
Cable weight (kg/km)	133±10	145±10	170±10	195±10	260±10	
Tensile (N)	Long Term:2000N / Short Term:1000N					
Crush (N/100mm)	Long Term:1000N / Short Term:3000N					
	Static12.5D / Dynamic25D					

Transport/ Storage/ Operating Temperature: -40°C--+60°C



**FO.C-X  
CENTRAL LOOSE TUBE NON-METALLIC  
STRENGTH MEMBER ARMORED CABLE**



**Description:**

The fibers are positioned in a loose tube made of a high modulus plastic. The tubes is wrapped with a water-resistant filling compound. The tube is wrapped with a layer of aramid yarn or glass yarn, and corrugated steel tape. The cable is completed with PE or LSZH jacket.

**Standards:**

- YD/T 769

**Characteristics:**

- Good mechanical and temperature performance.
- High strength loose tube that is hydrolysis resistant.
- Special tube filling compound ensure a critical protection of fiber
- PE sheath protects cable are from ultraviolet radiation
- Corrugated steel belt are glass yarn make the optical cable have rat resistance.

**Applications:**

- Duct cable, Indoor and outdoor optical cable

**Fiber Characteristics**

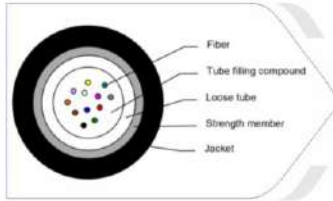
Item	Performance index						
	G652/G657	62.5/125 OM1	50/125 OM2	50/125 OM3	150/50/125 OM3	300/50/125 OM4	550
AttenuationdB/km@1310nm	≤0.36	/	/	/	/	/	/
AttenuationdB/km@1550nm	≤0.22	/	/	/	/	/	/
AttenuationdB/km@850nm	/	≤3.5					
AttenuationdB/km@1300nm	/	≤1.5					
BandwidthMhz+km@850nm	/	200	500	700	1500	3500	
BandwidthMhz+km/km@1300nm	/	500	500	500	500	500	

**Cable Characteristics**

Item	Requirement
Fiber color	BU/OR/GN/BN/GY/WH/RD/BK/YE/VT/PK/AQ
Tube OD(mm)	2.7±0.2
Strength member	Aramid yarn or Glass yarn
Aarmor layer	Corrugated steel tape
Jacket maerial	Black PE or LSZH
Jacket thickness	1.5±0.2mm
Cable size (mm)	7.5±0.3mm
Cable weight (kg/km)	7.5±0.3mm
Tensile (N)	Long Term:130N / Short Term:1000N
Crush (N/100mm)	Long Term:300N / Short Term:1000N
Bending Radius(mm)	Static10D / Dynamic20D

Transport/ Storage/ Operating Temperature: -40°C+60°C

FO.C-Y  
CENTRAL LOOSE TUBE NON-METALLIC  
STRANDED MEMBER NON-ARMORED CABLE



**Description:**

- The fibers are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. The tube is wrapped with a layer of aramid yarn or glass yarn. The cable is completed with PE or LSZH jacket.

**Standards:**

- YD/T 769

**Characteristics:**

- Good mechanical and temperature performance.
- High strength loose tube that is hydrolysis resistant.
- Special tube filling compound ensure a critical protection of fiber
- Lightweight, excellent bending performance
- PE sheath protect cable from ultraviolet radiation
- Glass yarn make the optical cable have rat resistance
- Non-metallic structure to avoid electromagnetic injury

**Applications:**

- Duct cable, Indoor and outdoor optical cable

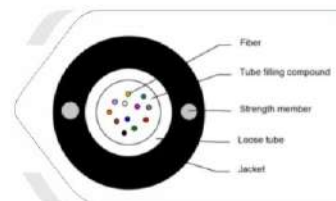
Fiber Characteristics

Item	Performance index					
	G652/G657	62.5/125 OM1	50/125 OM2	50/125 OM3/150	50/125 OM3/300	50/125 OM4/550
Attenuation dB/km@1310nm	≤0.36	/	/	/	/	/
Attenuation dB/km@1550nm	≤0.22	/	/	/	/	/
Attenuation dB/km@850nm	/	≤3.5				
Attenuation dB/km@1300nm	/	≤1.5				
Bandwidth Mhz*km@850nm	/	200	500	700	1500	3500

Cable Characteristics

Item	Requirement
Fiber color	BU/OR/GN/BN/GY/WH/RD/BK/YE/VT/PK/AQ
Tube OD	2.7±0.2
Strength member	Aramid yarn or Glass yarn
Jacket material	Black PE or LSZH
Jacket thickness	1.2±0.2mm
Fibre Number	2-12
Cable size (mm)	6.0±0.3mm
Cable weight (kg/km)	PE: 32±3.3    LSZH: 42±4
Tensile (N)	Long Term:200N / Short Term:1000N
Crush (N/100mm)	Long Term:300N / Short Term:1000N
Bending Radius(mm)	Static12.5D / Dynamic25D

Transport/ Storage/ Operating Temperature: -30°C~+60°C


**FO.C-Z  
CENTRAL LOOSE TUBE NON-METALLIC  
STRENGTH MEMBER NON-ARMORED CABLE**

**Description:**

- The fibers are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. Two parallel non-metallic strength Member (FRP) are placed at the two sides of the cable. The cable is completed with PE jacket.

**Standards:**

- YD/T 769

**Characteristics:**

- Good mechanical and temperature performance.
- High strength loose tube that is hydrolysis resistant.
- Special tube filling compound ensure a critical protection of fiber
- Lightweight, excellent bending performance
- PE sheath protect cable from ultraviolet radiation
- Non-metallic structure to avoid electromagnetic injury

**Applications:**

- Duct cable, Indoor and outdoor optical cable

**Fiber Characteristics**

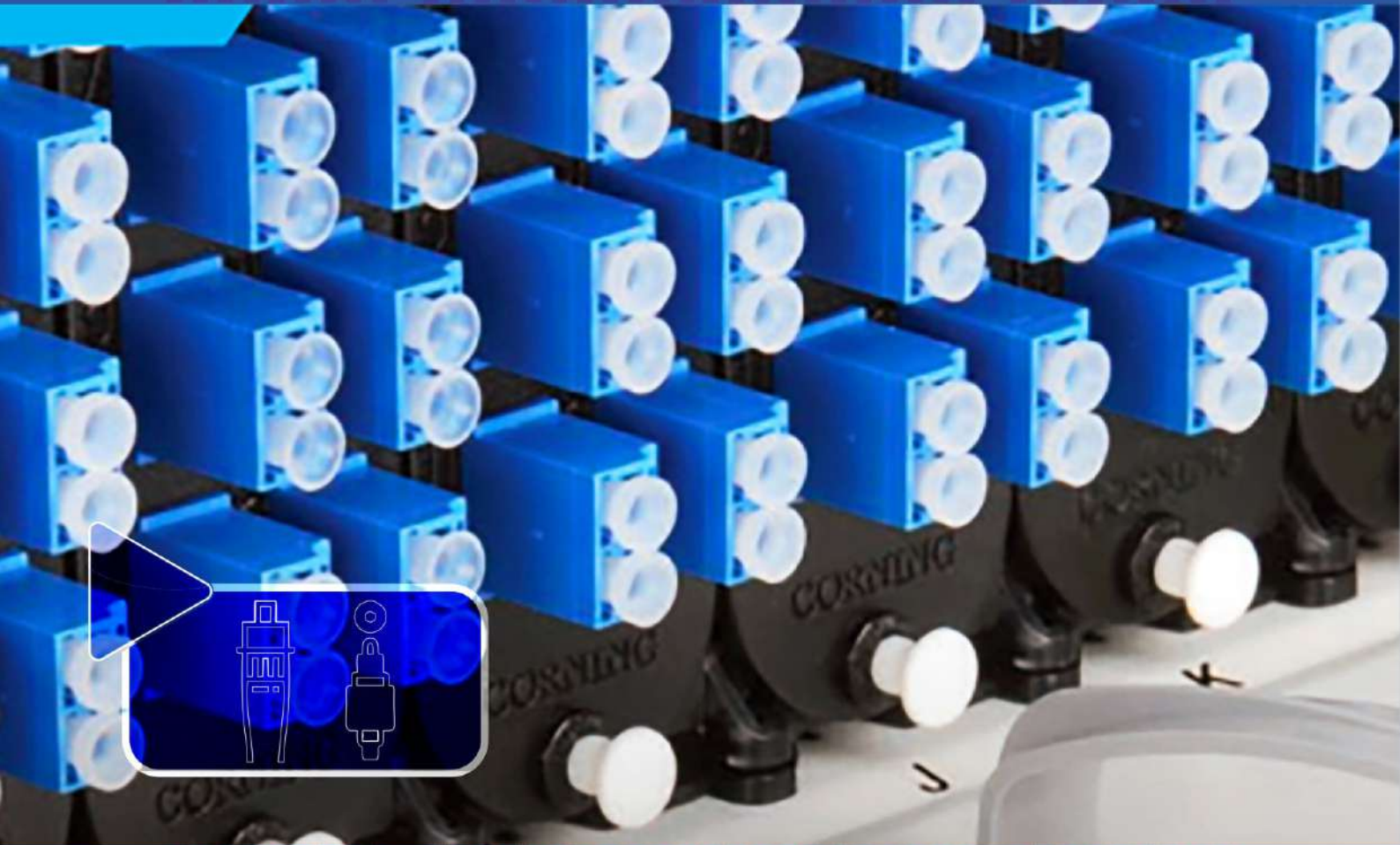
Item	Performance index					
	G652/G657	62.5/125 OM1	50/125 OM2	50/125 OM3/150	50/125 OM3/300	50/125 OM4/550
AttenuationdB/km@1310nm	≤0.36	/	/	/	/	/
AttenuationdB/km@1550nm	≤0.22	/	/	/	/	/
AttenuationdB/km@850nm	/	≤3.5				
AttenuationdB/km@1300nm	/	≤1.5				
BandwidthMhz+km@850nm	/	200	500	700	1500	3500
BandwidthMhz+km/km@1300nm	/	500	500	500	500	500

**Cable Characteristics**

Item	Requirement
Fiber color	BU/OR/GN/BN/GY/WH/RD/BK/YE/VT/PK/AQ
Tube OD(mm)	2.0±0.2
Strength member	FRP
Aarmor layer	Black PE
Jacket maerial	2.0±0.2mm
Outer Jacket thickness	2-12
Cable size (mm)	6.0±0.3mm
Cable weight	35±3
Tensile (N)	Long Term:200N / Short Term:500N
Crush (N/100mm)	Long Term:300N / Short Term:800N
Bending Radius(mm)	Static12.5D / Dynamic25D

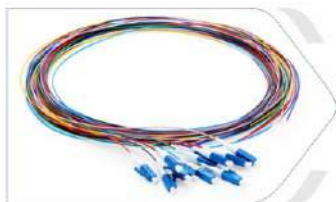
Transport/ Storage/ Operating Temperature: -20°C+60°C





# FIBER ACCESSORIES

- ▶ FIBRE OPTIC PIGTAILS
- ▶ FIBRE OPTIC PATCH CORDS
- ▶ FIBER OPTIC ADAPTERS
- ▶ FIBER OPTIC PATCH PANELS


**FIBRE OPTIC PIGTAILS**

**Description:**

- Fiber optic pigtails provide a fast way to make communication devices in the field. They are designed, manufactured and tested according to protocol and performance dictated by the industrial standards, which will meet your most stringent mechanical and performance specifications.

**Characteristics:**

- PVC Flame-retardant Fiber Optic Cable with Tight-buffered coating on each optical fiber
- Individually colored to easily match color-coded fiber cable that will be spliced
- Pass all IEC-61754 and TIA-604 (FOCIS) performance requirements
- Support both fusion and mechanical splicing for fiber cabling system

Part Number	Description	PU
PGS-SM-1	FO PIGTAIL 09/OS2 SC 01M-SOHA	1/12 PCS
PGS-MM3-1	FO PIGTAIL G50/OM3 SC 01M-SOHA	1/12 PCS
PGS-MM4-1	FO PIGTAIL G50/OM4 SC 01M-SOHA	1/12 PCS
PGL-SM-1	FO PIGTAIL 09/OS2 LC 01M-SOHA	1/12 PCS
PGL-MM3-1	FO PIGTAIL G50/OM3 LC 01M-SOHA	1/12 PCS
PGL-MM4-1	FO PIGTAIL G50/OM4 LC 01M-SOHA	1/12 PCS



FIBRE OPTICE PATCH CORDS SCD



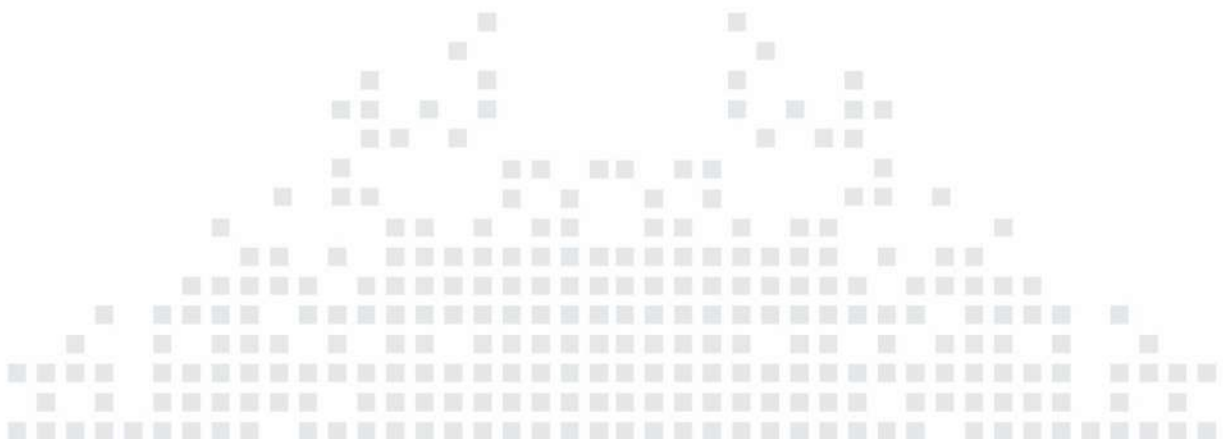
**Description:**

Fiber optic patch cords is less attenuation when bent or twisted compared with traditional optical fiber cables and this will make the installation and maintenance of the fiber optic cables more efficient. It can also save more space for your high density cabling in data centers, enterprise networks, telecom room, server farms cloud storage networks, and any places fiber patch cables are needed. This fiber optic cable is ideal for connecting 1G/10G/40G/100G Ethernet connections. It can transport data for up to 10km at 1410nm or up to 40km at 1550nm.

**Characteristics:**

- PVC (Riser) Flame-retardant Jacket
- Precision Zirconia Ferrule connectors ensure low loss
- Duplex clip prevents the fiber from rotating and maintains the polarity
- G.657.A1 Bend insensitive fiber & 10mm min. bend radius
- Optical testing ensures network performance
- Compliant to TIA-604 (FOCIS)

Connector type		Fiber type	Length in (m)/ Part Number									
Side A	Side B	-	1	2	3	4	5	6	7	8	9	10
SCD	SCD	E09/OS2	PC-SS MM2-1	PC-SS MM2-2	PC-SS MM2-3	PC-SS MM2-4	PC-SS MM2-5	PC-SS MM2-6	PC-SS MM2-7	PC-SS MM2-8	PC-SS MM2-9	PC-SS MM2-10
SCD	SCD	G50/OM3	PC-SS MM3-1	PC-SS MM3-2	PC-SS MM3-3	PC-SS MM3-4	PC-SS MM3-5	PC-SS MM3-6	PC-SS MM3-7	PC-SS MM3-8	PC-SS MM3-9	PC-SS MM3-10
SCD	SCD	G50/OM4	PC-SS MM4-1	PC-SS MM4-2	PC-SS MM4-3	PC-SS MM4-4	PC-SS MM4-5	PC-SS MM4-6	PC-SS MM4-7	PC-SS MM4-8	PC-SS MM4-9	PC-SS MM4-10
SCD	LCD	E09/OS2	PC-SL MM2-1	PC-SL MM2-2	PC-SL MM2-3	PC-SL MM2-4	PC-SL MM2-5	PC-SL MM2-6	PC-SL MM2-7	PC-SL MM2-8	PC-SL MM2-9	PC-SL MM2-10
SCD	LCD	G50/OM3	PC-SL MM3-1	PC-SL MM3-2	PC-SL MM3-3	PC-SL MM3-4	PC-SL MM3-5	PC-SL MM3-6	PC-SL MM3-7	PC-SL MM3-8	PC-SL MM3-9	PC-SL MM3-10
SCD	LCD	G50/OM4	PC-SL MM4-1	PC-SL MM4-2	PC-SL MM4-3	PC-SL MM4-4	PC-SL MM4-5	PC-SL MM4-6	PC-SL MM4-7	PC-SL MM4-8	PC-SL MM4-9	PC-SL MM4-10




**FIBER OPTICE PATCH CORDS LCD**

**Description:**

- Fiber optic patch cords is less attenuation when bent or twisted compared with traditional optical fiber cables and this will make the installation and maintenance of the fiber optic cables more efficient. It can also save more space for your high density cabling in data centers, enterprise networks, telecom room, server farms cloud storage networks, and any places fiber patch cables are needed. This fiber optic cable is ideal for connecting 1G/10G/40G/100G Ethernet connections. It can transport data for up to 10km at 1410nm or up to 40km at 1550nm.

**Characteristics:**

- Short Unpacking Time, Saving Storage Space and Environmentally friendly packaging.
- PVC (Riser) Flame-retardant jacket
- Precision Zirconia ferrule connectors ensure LOW LOSS
- Duplex Clip prevents the fiber from rotating and maintains the polarity
- G.657.A1 Bend insensitive fiber & 10mm Min. Bend Radius
- Optical Testing ensures network performance
- Compliant to TIA-604 (FOCIS)

Connector type		Fiber type	Length in (m)/ Part Number									
Side A	Side B	-	1	2	3	4	5	6	7	8	9	10
LCD	LCD	E09/OS2	PC-LL MM2-1	PC-LL MM2-2	PC-LL MM2-3	PC-LL MM2-4	PC-LL MM2-5	PC-LL MM2-6	PC-LL MM2-7	PC-LL MM2-8	PC-LL MM2-9	PC-LL MM2-10
LCD	LCD	G50/OM3	PC-LL MM3-1	PC-LL MM3-2	PC-LL MM3-3	PC-LL MM3-4	PC-LL MM3-5	PC-LL MM3-6	PC-LL MM3-7	PC-LL MM3-8	PC-LL MM3-9	PC-LL MM3-10
LCD	LCD	G50/OM4	PC-LL MM4-1	PC-LL MM4-2	PC-LL MM4-3	PC-LL MM4-4	PC-LL MM4-5	PC-LL MM4-6	PC-LL MM4-7	PC-LL MM4-8	PC-LL MM4-9	PC-LL MM4-10
LCD	SCD	E09/OS2	PC-LS MM2-1	PC-LS MM2-2	PC-LS MM2-3	PC-LS MM2-4	PC-LS MM2-5	PC-LS MM2-6	PC-LS MM2-7	PC-LS MM2-8	PC-LS MM2-9	PC-LS MM2-10
LCD	SCD	G50/OM3	PC-LS MM3-1	PC-LS MM3-2	PC-LS MM3-3	PC-LS MM3-4	PC-LS MM3-5	PC-LS MM3-6	PC-LS MM3-7	PC-LS MM3-8	PC-LS MM3-9	PC-LS MM3-10
LCD	SCD	G50/OM4	PC-LS MM4-1	PC-LS MM4-2	PC-LS MM4-3	PC-LS MM4-4	PC-LS MM4-5	PC-LS MM4-6	PC-LS MM4-7	PC-LS MM4-8	PC-LS MM4-9	PC-LS MM4-10



FIBER OPTIC ADAPTERS SC



**Description:**

● A fiber optic adapter, sometimes also called a coupler, is a small device designed to terminate or link the fiber optic cables or fiber optic connectors between two fiber optic lines. By linking two connectors precisely, fiber optic adapters allow the light sources to be transmitted at most and lower the loss as much as possible. At the same time, including special male to female hybrid optic adapters.

**Characteristics:**

- $\leq 0.2$  dB (Typical) Low Insertion Loss
- Color Coded for rapid fiber management
- Protective dust cap keeps adapters interior clean from dust
- Stainless steel clips for tool-less snap-in installation
- Available in A Variety of connector types
- Can be used with M2 Model Screw

Part Number	Description	PU
ASD-SM	SC DUPLEX ADAPTERS SM-SOHA	1 PCS
ASD MM3	SC DUPLEX ADAPTERS OM3-SOHA	1 PCS
ASD MM4	SC DUPLEX ADAPTERS OM4-SOHA	1 PCS
ASS-SM	SC SIMPLEX ADAPTERS OPTIC SM-SOHA	1 PCS
ASS-MM3	SC SIMPLEX ADAPTERS OPTIC OM3-SOHA	1 PCS
ASS-MM4	SC SIMPLEX ADAPTERS OPTIC OM4-SOHA	1 PCS




**FIBER OPTIC ADAPTERS LCD**

**Description:**

- $\leq 0.2$  dB (Typical) Low Insertion Loss
- Color Coded for rapid fiber management
- Protective dust cap keeps adapters interior clean from dust
- Plastic Buckle for Tool-less snap-in installation
- Available in A Variety of connector types

**Characteristics::**

- A fiber optic adapter, sometimes also called a coupler, is a small device designed to terminate or link the fiber optic cables or fiber optic connectors between two fiber optic lines. By linking two connectors precisely, fiber optic adapters allow the light sources to be transmitted at most and lower the loss as much as possible. At the same time, including special male to female hybrid optic adapters.

Part Number	Description	PU
ALS-SM	LC SIMPLEX ADAPTERS PLASTIC OS2-SOHA	1 PCS
ALS MM3	LC SIMPLEX ADAPTERS PLASTIC OM3-SOHA	1 PCS
ALS MM4	LC SIMPLEX ADAPTERS PLASTIC OM4-SOHA	1 PCS
ALD-SM	LC DUPLEX ADAPTERS PLASTIC OS2-SOHA	1 PCS
ALD-MM3	LC DUPLEX ADAPTERS PLASTIC OM3-SOHA	1 PCS
ALD-MM4	LC DUPLEX ADAPTERS PLASTIC OM4-SOHA	1 PCS
ALQ-SM	LC QUAD ADAPTERS PLASTIC OS2-SOHA	1 PCS
ALQ-MM3	LC QUAD ADAPTERS PLASTIC OM3-SOHA	1 PCS
ALQ-MM4	LC QUAD ADAPTERS PLASTIC OM4-SOHA	1 PCS



FIBER OPTIC PATCH PANEL UNLOADED



**Description:**

- Housing: metallic, extractable drawer with locking mechanism
- Rack mounting: depth- adjustable mounting of box (5 steps, maximum 50 mm) due to the adjustable 19" mounting brackets. Colour mounting brackets (variants): similar to RAL 7035, similar to RAL 9005 and stainless steel.
- Capacity: up to 96 fibres
- Strain relief: with cable tie and screwed cable gland or cable distributor
- Cable entry: rear left and right (two big opening covered with straight cable entry plates)
- Article No. 418650 with pre-stamped cable entries 2xM15, 1xM20- (these pre-stamped holes can be opened as necessary)
- Dimensions: 19"/1U, depth 300 mm

**Applications:**

- For the termination of fibre optic cables (breakout, loose tube) - maximum of 96 fibres. Applicable with a wide range of front plates / connector systems (see OV-S / OV-AT 1U accessories)

**Option:**

- An additional element (folding mechanism) allows the drawer to be hinged down at a 45 degree angle (tool-less assembly)

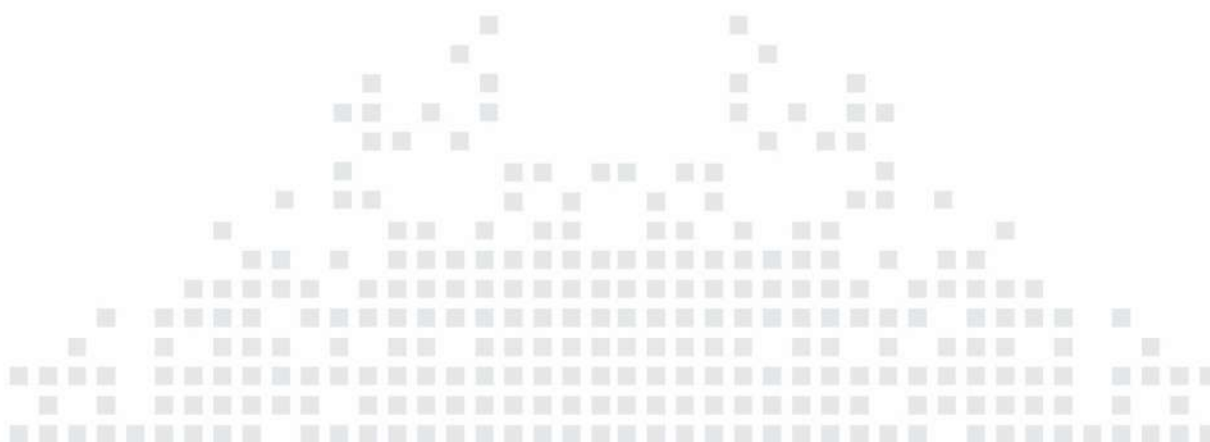
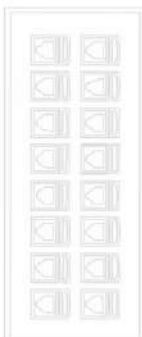
**Connector System:**

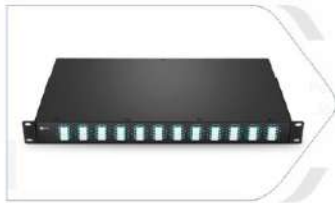
- Adapter: ST, FC, SCD, SC, LSH, LCD (dependent on front plate)

**Scope of Delivery:**

- Box, with straight cable entry plates
- Please order the front plate separately.

Part Number	Description	PU
PP-12-SCD	FIBER OPTIC PATCH PANEL 12 PORT SCD SM-SOHA	1 PCS
PP-24-SCD	FIBER OPTIC PATCH PANEL 24 PORT SCD SM-SOHA	1 PCS




**FIBER OPTIC PATCH PANEL FULL LOADED**

**Description:**

- Housing: metallic, extractable drawer with locking mechanism (5 steps, maximum 50 mm)  
Colour (front): similar to RAL 7035, Similar to RAL 9005 or stainless steel.  
Imprint: numbers (silk screen printing) on frontplate.  
Capacity: up to 96 fibres  
Strain relief: with cable tie and screwed cable gland (M20) (two big opening, covered with straight cable entry plates:  
Article No. 415308 with pre-stamped cable entries M20, M25- these pre-stamped holes can  
Article No. 418650 with pre-stamped cable entries 2xM15, 1xM20- these pre-stamped holes can  
Dimensions: 19"/1U, depth 300 mm

**Applications:**

- For the termination of fibre optic cables - maximum of 96 fibres.  
Loaded with FO adapters, ready for splicing with prepared pigtailed (per 2m, colour code: IEC 60304)

**Connector System:**

- Adapter: SCD, LCD, LSH, ST

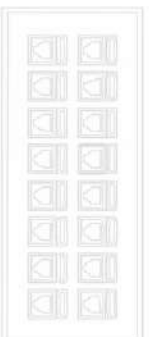
**Scope of Delivery:**

- Splice box with two straight cable entries  
one screwed cable gland M20  
coloured pigtailed with measurement report  
FO adapters, fastened by screws  
splice trays with cover and support  
Delivery without splicing protection

**Notes:**

- Variants on request  
upgradable with an optional folding mechanism (Article No.415245)

Part Number	Description	PU
PPF-12-SCD	FIBER OPTIC PATCH PANEL FULL LOADED 12 PORT SCD-SM-SOHA	1 PCS
PPF-24-SCD	FIBER OPTIC PATCH PANEL FULL LOADED 24PORT SCD-SM-SOHA	1 PCS







# DATA CABINETS AND RACKS

- ▶ WALL MOUNT CABINETS
- ▶ SERVER RACKS
- ▶ NETWORK RACKS
- ▶ CABLE MANAGERMENTS



**WALL MOUNT CABINET**



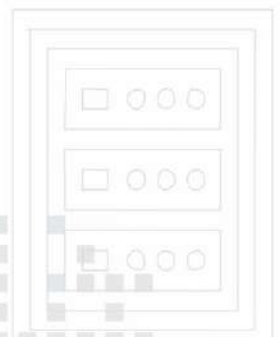
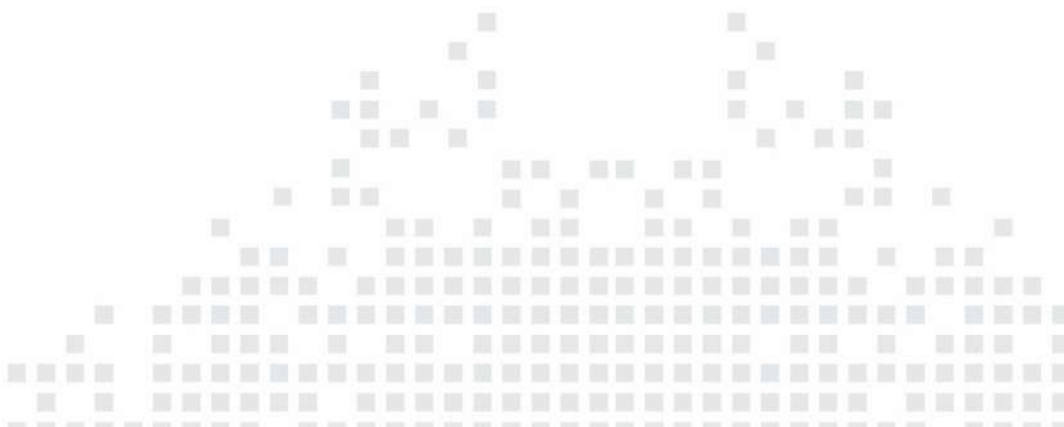
**Description:**

- Designed with excellent cable management, easy top and bottom access and a fully adjustable mounting rail system, the wall mount cabinet is extremely versatile for a wide range of applications. It is ideal as a mini telecommunication room or for remote network distribution and consolidation points in open, unprotected spaces such as warehouses, retail facilities and schools

**Applications:**

- The wall-mount design space in the office or server room
- Glass front door or vented side panels keep equipment cool and secure
- Easily install your server and network equipment as all mounting hardware is included
- Ideal for utility/server closets and narrow home/office spaces

Part No	Width	Depth	Height	Product Name
SMR-600	56	45	33	6U
SMR-601	53	45	31	6U
SMR-602	53	60	31	6U
SMR-901	56	45	47	9U
SMR-902	56	60	47	9U
SMR-903	53	45	45	9U
SMR-904	53	60	45	9U
SMR-1200	60	60	60	12U
SMR-1201	53	60	58	12U



SERVER RACK



**Description:**

- It is the ideal solution for secure high-density server and networking applications IT environments. It is designed to simplify rack equipment installations and rack equipment maintenance, supporting and protecting rack-mount servers, storage, and network equipment in multi-tenant and enterprise data centers, computer rooms, and network facilities

**Applications:**

- Adjustable mounting rails and easy-view depth index can be quickly repositioned
- Mesh doors increase airflow to provide passive cooling
- Keep equipment secure by locking front and back doors
- Casters and leveling feet allow cabinet move and position easily on uneven floors
- Shipped fully assembled, providing hassle-free deployment
- Lockable and removable side panels improve Ease of installation and maintenance

Part No	Width	Depth	Height	Product Name
SRS-4700	60	100	228	47U
SRS-4200	60	100	206	42U
SRS-3700	60	100	183	37U
SRS-3200	60	100	161	32U
SRS-2700	60	100	139	27U
SRS-2200	60	100	117	22U
SRS-1700	60	100	95	17U





**NETWORK RACK**



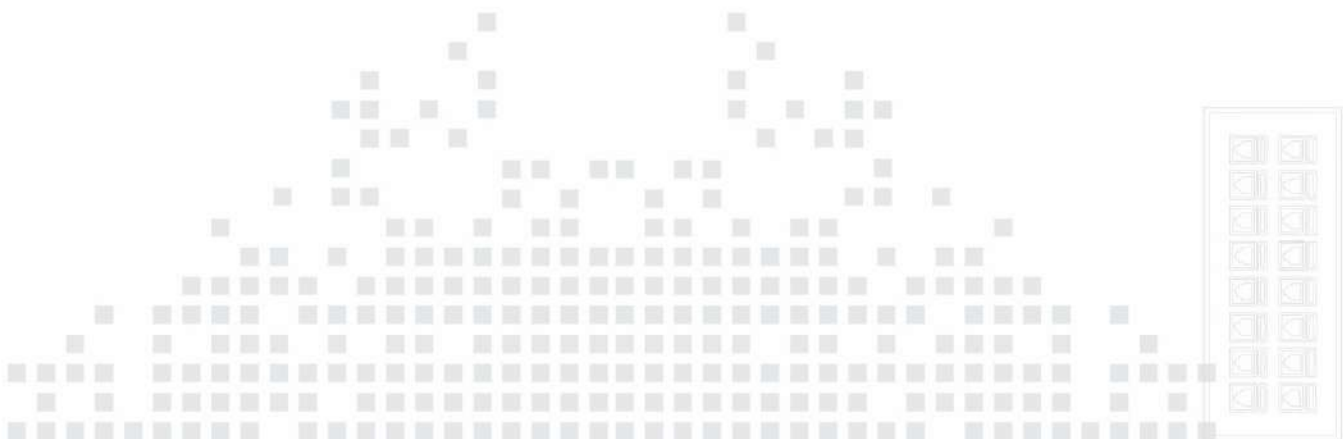
**Description:**

- It is the ideal solution for secure high-density server and networking applications IT environments. It is designed to simplify rack equipment installations and rack equipment maintenance, supporting and protecting rack-mount servers, storage, and network equipment in multi-tenant and enterprise data centers, computer rooms, and network facilities

**Applications:**

- Adjustable mounting rails and easy-view
- Depth index can be quickly repositioned
- Mesh doors increase airflow to provide Passive cooling
- Keep equipment secure by locking front and back doors
- Casters and leveling feet allow cabinet move and position easily on uneven floors
- Shipped fully assembled, providing hassle-free Deployment
- Lockable and removable side panels improve Ease of installation and maintenance
- Vertical cable managers with bend radius control Can be assembled front/rear

Part No	Width	Depth	Height	Product Name
SRN-4700	60	60	228	47U
SRN-4200	60	60	206	42U
SRN-3700	60	60	183	37U
SRN-3200	60	60	161	32U
SRN-2700	60	60	139	27U
SRN-2200	60	60	117	22U
SRN-1700	60	60	95	17U
SRN-1200	60	60	58	12U



CABLE MANAGEMENT



**Description:**

- **1U Horizontal Cable Manager with Finger Duct**
- Horizontal cable manager shall be capable of managing cables on the front and rear of any 19" rack, they ensure optimal cable radius to prevent deterioration or breakage. flexible fingers maximize the care and protection of the equipment and cables, keeping the structured cabling system unhurt and totally functional.the removable cover makes it easy to add or remove bundled quickly



**Description:**

- **1.6 Single Vertical Cable Management Ring with M6 Screws and Nuts**
- 1.6" Vertical cable management rings provide you with a cost-effective solution which allows you to neatly and effectively organize and route cable bundles along racks and wall. Providing strain relief for attached cables, multiple vertical rings can be attached to your rack where you need them for a versatile cable management solution without any height limitation



**Applications:**

- Mount to any EIA 19" Rack or cabinet in data centers and telecom room
- Flexible fingers organize patch cords, simplifying moves, adds and changes
- Finger spacing provides a large area for copper, fiber optic and coax cables
- Rounded edges on fingers protect cables from snags and damage to the cable
- Dual hinged cover opens upward or downward to provide easy access to cables
- The bend radius control helps protect cables from kinks and snags
- Cable pass through holes provide ease of installation and cable maintenance

**Applications:**

- Standard EIA Hole spacing allows product to be Mounted to any standard rack
- Metal (galvanized iron) D-rings for permanent Durability
- Suitable for twisted pair and fiber optic Patch cords
- The bend radius control helps protect cables from Nicks or wear
- Required mounting hardware is included

Part Number	Description	PU
CM-101	HORIZONTAL SINGLE SIDE MANAGER	1 PCS
CM-201	HORIZONTAL SINGLE SIDE MANAGER	1 PCS
CM-301	VERTICAL D-RING MANAGER	1 PCS





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