

# PRODUCT LINE-UP

MMS & Structured Cabling Solutions

FIBER OPTICS  
NETWORK INFRASTRUCTURE  
INSTALLATION CABLES  
EQUIPMENT RACKS

MMS &  
STRUCTURED  
CABLING  
SOLUTIONS

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01

**FIBER OPTICS**

# ODFDSMW-In

## Singlemode Indoor FTTH Drop Cable

### Description

FTTH indoor drop cable is constructed with two single mode fiber. The cable is protected by a dielectric strength member made of fiberglass reinforced plastic (FRP) and a LSZH outer jacket. Ideal for use in FTTH & FTTx applications between the building's main telecommunications room and the apartment or office consolidation point.

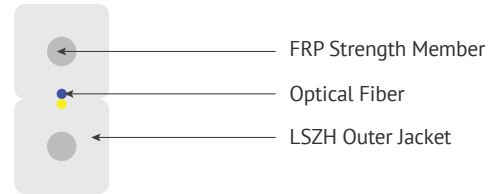


### Features

- Robust and lightweight
- Colour coded fibers for easy identification
- LSZH jacket for internal use

### Physical Characteristics

Optical Fiber	2 core
Color of Buffer	1-Blue / 1-Yellow
Core Diameter	250 ± 15µm
Mode	Singlemode
Strength Member	KFRP / FRP
Diameter	Ø 0.6 / 0.52 ± 0.05mm
Sheath	LSZH
Nominal Thickness	Minimum 0.4mm
Cable Construction	
Dimension	Max: 3.0×2.0mm ± 0.2mm
Weight	Approx. 8kg/km



### Optical Characteristics

Cladding Diameter	µm	125 ± 0.7
Cladding Non-Circularity	%	< 1.0
Core Connentricity Error	µm	< 0.5
Mode Filed Diameter	µm	1310nm: (8.6 ~ 9.5 ± 0.4)
Mode Cutoff Wavelength	µm	< 1260
Attenuation Coefficients	dB/km	1310nm: (< 0.4) 1510nm: (< 0.3)
Macro Bending Loss	dB	10 turns, 30mm diameter (< 0.25) 1 turn, 20mm diameter (< 0.75)

### Sheath Feature Of Optical Fiber Cable

Sheath tensile Strength before thermal aging	Mpa	> 15
The change rate of sheath tensile strength before and after thermal aging	%	< 10
Sheath break elongation before thermal aging	%	> 170
Sheath break elongation after thermal aging	%	> 150
The change rate of sheath break elongation before and after thermal aging	%	< 20

### Physical Characteristics

Temperature Range	-40°C ~ +60°C
Fire Performance	IEC 60332-1, IEC 60754-2, IEC 61034

### Available Options

ODFD002SMW-In	Singlemode indoor FTTH fiber drop cable	SM, indoor, 2 Cores
ODFD004SMW-In	Singlemode indoor FTTH fiber drop cable	SM, indoor, 4 Cores
ODFD006SMW-In	Singlemode indoor FTTH fiber drop cable	SM, indoor, 6 Cores

# ODFDSMB-Out

## Singlemode Outdoor FTTH Drop Cable

### Description

FTTH outdoor drop cable is constructed with two single mode fiber. The cable is protected by a dielectric strength member made of fiberglass reinforced plastic (FRP), steel wire and a LSZH outer jacket.

Designed for outdoor installation the cable is well suited for connections between the dome closure and small dwelling unit / warehouse and independent villas.

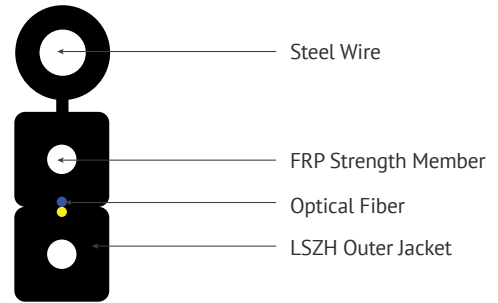


### Features

- Robust and lightweight
- Colour coded fibers for easy identification
- LSZH jacket for internal use
- Steel wire support`

### Physical Characteristics

Core Diameter	250 ± 15µm
Mode	Singlemode
Strength Member	KFRP / FRP
Diameter	Ø 0.6 / 0.52 ± 0.05mm
Strength Member 2	Steel Wire
Diameter	Ø 0.2 ± 0.05mm
Sheath	LSZH
Nominal Thickness	Minimum 0.4mm
Cable Construction	
Dimension	Max: 5.3×2.0mm ± 0.2mm
Weight	Approx. 20kg/km



### Optical Charateristics

Cladding Diameter	µm	125 ± 0.7
Cladding Non-Circularity	%	< 1.0
Core Connentricity Error	µm	< 0.5
Mode Filed Diameter	µm	1310nm: (8.6 ~ 9.5 ± 0.4)
Mode Cutoff Wavelength	µm	< 1260
Attenuation Coefficients	dB/km	1310nm: (< 0.4) 1510nm: (< 0.3)
Macro Bending Loss	dB	10 turns, 30mm diameter (< 0.25) 1 turn, 20mm diameter (< 0.75)

### Sheath Feature Of Optical Fiber Cable

Sheath tensile Strength before thermal aging	Mpa	> 15
The change rate of sheath tensile strength before and after thermal aging	%	< 10
Sheath break elongation before thermal aging	%	> 170
Sheath break elongation after thermal aging	%	> 150
The change rate of sheath break elongation before and after thermal aging	%	< 20

### Physical Characteristics

Temperature Range	-40°C ~ +60°C
Fire Performance	IEC 60332-1, IEC 60754-2, IEC 61034

### Available Options

ODFD002SMB-Out	2 cores Singlemode outdoor FTTH fiber drop cable	SM, outdoor, 2 Cores
ODFD004SMB-Out	4 cores Singlemode outdoor FTTH fiber drop cable	SM, outdoor, 4 Cores

# ODGJPFJH Series

## Multi-Core Distribution Indoor Fiber Optic Cable

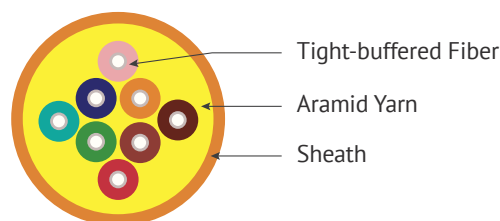
### Features

- Excellent mechanical and environmental properties
- Excellent flame-retardant performance
- Excellent mechanical performance of the cable sheath
- Soft, flexible, easy for splicing
- Comply with standard YD/T 1258.4-2005



### Applications

- Used for indoor cabling, especially used as distribution cable
- Used as the interconnections between communication equipments, or the interconnections for telecommunication control rooms or distribution frames.
- Used as pigtails and jumpers



### Specifications

Cable cores	Overall diameter of cable (mm)	Cable weight (kg/km)	Minimum bending radius		Tensile (N)		Crush (N/100m)	
			Static	Dynamic	Short term	Long term	Short term	Long term
4	5.0 ±0.3	17	10D	20D	70	220	200	1000
6	5.2 ±0.3	21			100	300	200	1000
8	5.5 ±0.3	28			130	440	200	1000
12	6.5 ±0.3	36			300	600	200	1000
16	7.5 ±0.3	44			350	700	200	1000
24	8.0 ±0.3	59			400	800	200	1000
48	12.5 ±0.3	130			600	1200	200	1000

### Fiber Type

### Ordering Information

<b>Product code</b> ODGJPFJH	<b>Core Quantity</b> XXX	<b>Fiber Type</b> XX	<b>Sheath</b> X
	002 - 2 Cores 004 - 4 Cores 006 - 6 Cores 048 - 48 Cores	SM - Singlemode G652D, 9µm M1 - OM1, 62.5µm M2 - OM2, 50µm M3 - OM3, 50µm M4 - OM4, 50µm	- N/A L - LSZH

#### Example

**ODGJPFJH006SM** = GJPFJH series indoor singlemode 9µm with 6 cores fiber optic cable.

**ODGJPFJH012M3L** = GJPFJH series indoor multimode OM3 50µm, 12 cores fiber optic cable with LSZH jacket.

# ODGYXTW Series

## Unitube Outdoor 2-96 Cores Fiber Optic Cable

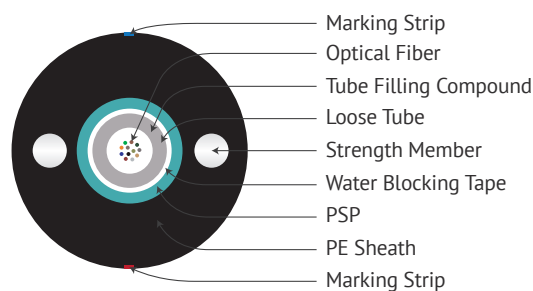
### Features

- 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
- PSP enhancing moisture-proof
- Two parallel strength members ensure tensile strength
- Small outer diameter, light weight and friendly installation
- Long delivery length



### Technical Data

Tensile Strength (N)	
Short term	Long term
600	1500
Crush Resistance (N/100m)	
Short term	Long term
300	1000
Bending Radius (mm)	
Static	Long term
10D	20D



### Optical Characteristics

		G.652	G.655	50/125μm	62.5/125μm
Attenuation (+20°C)	@ 850nm			≤3.0 dB/km	≤3.0 dB/km
	@ 1300nm			≤1.0 dB/km	≤1.0 dB/km
	@ 1310nm	≤0.36 dB/km	≤0.40 dB/km		
	@ 1550nm	≤0.22 dB/km	≤0.23 dB/km		
Bandwidth (Class A)	@ 850nm			≥500 MHz/km	≥200 MHz/km
	@ 1300nm			≥1000 MHz/km	≥600 MHz/km
Numerical Aperture				0.200±0.015NA	0.275±0.015NA
Cable Cut-off Wavelength		≤1260nm	≤1480nm		

### Ordering Information

Product code	Core Quantity	Fiber Type	Sheath
ODGYXTW	XXX	XX	X
	002 - 2 Cores 004 - 4 Cores 006 - 6 Cores 008 - 8 Cores 012 - 12 Cores 016 - 16 Cores 024 - 24 Cores 036 - 36 Cores 048 - 48 Cores 072 - 72 Cores 096 - 96 Cores	SM - Singlemode G652D, 9μm M1 - OM1, 62.5μm M2 - OM2, 50μm M3 - OM3, 50μm M4 - OM4, 50μm	- N/A L - LSZH

#### Example

ODGYXTW012M2 = GYXTW series outdoor multimode OM2, 50μm with 12 cores fiber optic cable.

ODGYXTW008SML = GYXTW series outdoor singlemode 9μm, 8 cores fiber optic cable with LSZH jacket.

# ODGYTS Series

## 4-144 Cores Corrugated Steel Tape Armoured PE-UV Black Outdoor Fiber Optic Cable

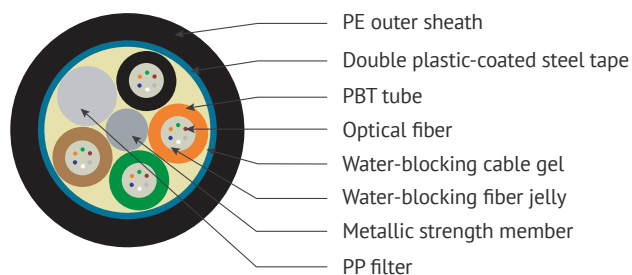
### Features

**Installation:** aerial, duct

Structured features: metallic central strength member(phosphated steel wire), double plastic-coated corrugated steel tape - PE bonded outer sheath.

**Performance characteristics:** excellent crush resistance with steel tape armor, sound bullet-proof performance.

**Application:** long-haul communication, communication between stations, especially suitable for application with high requirement of crush resistance like aerial installation.



### Specifications

Cable cores	Overall diameter of cable (mm)	Cable weight (kg/km)	Minimum bending radius		Tension allowed (N)		Crush resistance (N/100m)	
			Static	Dynamic	Short term	Long term	Short term	Long term
4 - 8F	8.0 ±0.3	62	10 times O.D.	20 times O.D.	1500	500	3000	1000
12 - 24F	8.8 ±0.3	78			1800	500	3000	1000
24 - 60	10.5 ±0.3	112			1500	600	1000	300
72	11.5 ±0.3	138			2000	600	1000	300
96	13.5 ±0.3	165			2500	800	1000	300
120	15.8 ±0.3	222						
144	15.8 ±0.3	222						

### Ordering Information

<b>Product code</b> ODGYTS	<b>Core Quantity</b> XXX 002 - 2 Cores 004 - 4 Cores 006 - 6 Cores 144 - 144 Cores	<b>Fiber Type</b> XX SM - Singlemode G652D, 9µm M1 - OM1, 62.5µm M2 - OM2, 50µm M3 - OM3, 50µm M4 - OM4, 50µm	<b>Sheath</b> X - N/A L - LSZH
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**Example**

**ODGYTS004SM** = GYTS series outdoor PE singlemode 9µm with 4 cores fiber optic cable.

**ODGYTS012M2L** = GYTS series outdoor multimode OM2, 50µm, 12 cores fiber optic cable with LSZH jacket.



# ODFPS

## Heat Shrinkable Fiber Splice Protection Sleeve

### Overview

The heat-shrink splice protection sleeves are designed to ensure maximum of splice protection. The construction consists of a polyolefine sleeve for fiber protection, a steel rod which guarantees the reinforcement of the fiber, and a hot fusion tube for rebuilding the outer coating.

### Features

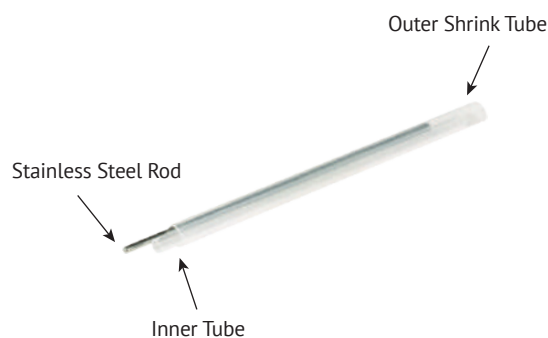
- Maintains optic transmission properly
- Reinforce and protects splice
- Protects fiber during installations
- One piece design
- Hot fusion sealing to protect the splice against dust and moisture

### Specifications

<b>Color</b>	Transparent
<b>Operating Temperature</b>	-45° to +100°
<b>Shrink Temperature</b>	110°
<b>Tensile Strength</b>	18MPa
<b>Ultimate Elongation</b>	700%
<b>Density</b>	0.94g/cm <sup>3</sup>
<b>Dielectric Strength</b>	25KV/mm
<b>Dielectric Constant</b>	2.5
<b>Longitudinal Change</b>	±5%

### Available Options

<b>ODFPS45</b>	45mm fiber protection sleeve	45mm
<b>ODFPS60</b>	60mm fiber protection sleeve	60mm

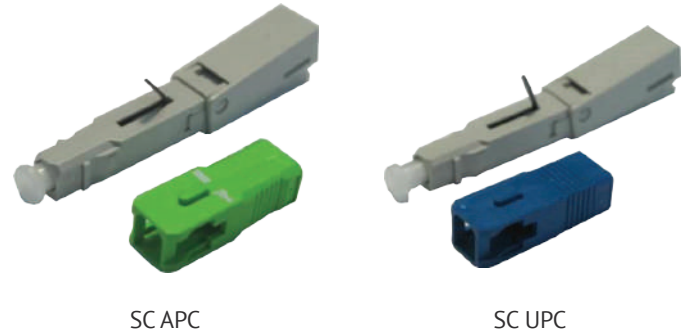


# ODFConSCCM

## Fiber Field Installable Connector

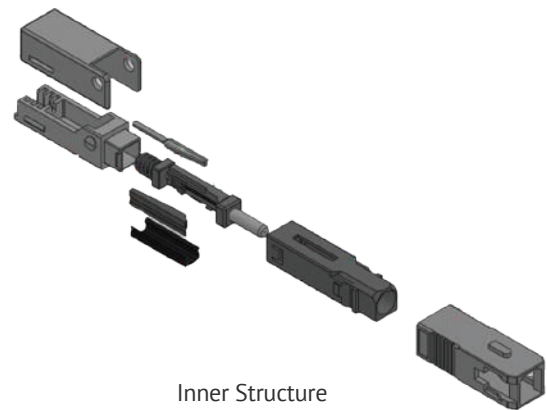
### Overview

The fiber field installable connector is widely used in Fiber To The Home (FTTH) access optical networks, not only for single-mode or multimode fiber, and can also choose to 900um, 3mm and the introduction of cable buffered type. With fast installation time and low insertion loss, the connector system provides a good alternative to fusion splicing. Installation is as easy as strip, clean, cleave cam and crimp.



### Features

- Compatible with standard SC connectors
- Field installable, cost effective, user friendly
- UPC, APC polishing optional
- Reliable durable and superior optical performance
- Low insertion loss and high return loss
- Stable capability and high reliability
- Excellent mechanical capability



### Specifications

	SC/UPC	SC/APC
Connector Length	51mm	51mm
Optical Fiber	2mm*3mm Butterfly Type	2mm*3mm Butterfly Type
Insertion Loss	Average ≤ 0.25dB, Max ≤ 0.5dB	Average ≤ 0.4dB, Max ≤ 0.6dB
Return Loss	≥50dB	≥60dB
Thermal Shock	≤0.30dB	
Storage / Operating Temperature	-40 ~ +80	
Tensile Strength	≥30 N	
Average Assembly Time	≤2 minutes	
Assembly Repeatability	≥5 times	
One-Time Assembly Yield	≥98%	

# Fiber Connector/Coupler

## A variety type of Fiber Optic Connectors/Couplers

### Overview

Optic Digital offers an extensive range of optical couplers for use in FTTx, telecommunications, data communications and CATV applications. All couplers are fully qualified to Telcodia GR326 and IEC 61300 and all materials used are RoHS complaint. Couplers can be supplied in a variety of colors and types such as SC, FC, ST, LC, E2000 etc.

### Features

- Qualified to Telcodia GR326 and IEC 61300 standards and RoHS complaint materials.
- Available for many different connector types such as SC, FC, ST, LC, E2000, MTRJ etc.
- All couplers are supplied with ceramic inserts.
- Supplied in a range of different colors to match connector type.
- Both simplex and duplex couplers are available.

### Applications

- FTTx
- CATV
- Data Communication
- Telecommunications
- Test and measurement

### Technical Data

	Singlemode (1310 / 1550nm)	Multimode (850nm)
Maximum Insertion Loss (dB)	≤ 0.3 Typical 0.2 (UPC and APC)	≤ 0.4 (UPC)
Return Loss (dB)	≥ 55 (UPC), ≥ 65 (APC)	Not measured
Intermateability	IEC 874-14	IEC 874-4
Operating temperature	-40°C to + 85°C	-40°C to + 85°C

### Available Options

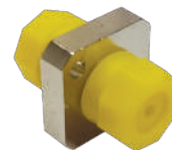
<b>ODConSCSM</b>	Singlemode SC fiber optic connector	SC connector
<b>ODConSTSM</b>	Singlemode ST fiber optic connector	ST connector
<b>ODCPLDSCSM</b>	Singlemode SC duplex fiber optic coupler	SC coupler (duplex)
<b>ODCPLSSCSM</b>	Singlemode SC simplex fiber optic coupler	SC coupler (simplex)
<b>ODCPLSSTSM</b>	Singlemode ST simplex fiber optic coupler	ST coupler (simplex)
<b>ODCPLDLCSM</b>	Singlemode LC duplex fiber optic coupler	LC coupler (duplex)
<b>ODCPLDSCMM</b>	Multimode SC duplex fiber optic coupler	SC coupler (duplex)



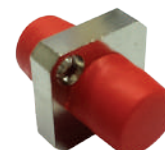
SC Adapter, Simplex



SC Adapter, Duplex



FC Adapter, Singlemode



FC Adapter, Multimode



LC Adapter, Singlemode



LC Adapter, Multimode



ST Adapter, Singlemode



ST Adapter, Multimode

# Fiber Pigtaills

## A variety type of Fiber Optic Pigtaills

### Overview

High performance optical pigtaills ensuring performs to the highest level. Offering an extensive range of optical pigtaills for use in FTTx, telecommunications, data communications and CATV applications. All pigtaills are fully qualified to RoHS Complaint. Can be supplied in a variety of lengths and with a variety of different connector types.

### Features

- Full traceability and test certification supplied with each assembly.
- Ultra polish (UPC) supplied as standard and Angle polish (APC) also available.
- Qualify Telcordia standard and RoHS Complaint materials properties.
- Many different connector types such as FC, SC, ST, E2000, LC, DIN and others on request.
- Available in singlemode and multimode (50/125 and 62.5/125)
- Standard cable diameter is 900 microm with easy strip buffering.

### Applications

- FTTx
- CATV
- Data Communication
- Telecommunications
- Test and measurement



ST Pigtaills



FC Pigtaills



SC Pigtaills



LC Pigtaills



SC/APC Pigtaills

### Technical Data

	Singlemode (1310 / 1550nm)	Multimode (850nm)
Maximum Insertion Loss (dB)	≤ 0.3 Typical 0.2 (UPC and APC)	≤ 0.4 (UPC)
Return Loss (dB)	≥ 55 (UPC), ≥ 65 (APC)	Not measured
Intermateability	IEC 874-14	IEC 874-4
Operating temperature	-40°C to + 85°C	-40°C to + 85°C

### Ordering Information

Product code	SM/MM Mode	Type of Connector	Length
ODPT	XX	XX	XX
	SM - SM, 9µm M1 - OM1, 62.5µm M2 - OM2, 50µm M3 - OM3, 50µm M4 - OM4, 50µm	SC - SC connector ST - ST connector LC - LC connector FC - FC connector	1 - 1m 2 - 2m ... 99 - 99m

**Example**

ODPTSMFC1 = FC connector singlemode 9µm fiber pigtaills in 1 meter length.

# Fiber Patchcord

## A variety type of Fiber Optic Patchcords

### Overview

High performance optical patchcord ensuring performs to the highest level. Optic Digital offering an extensive range of optical patchcord for use in FTTx, telecommunications, data communications and CATV applications. All patchcords are fully qualified to RoHS Compliant. Can be supplied in a variety of lengths and with a variety of different connector types.

### Features

- Full traceability and test certification supplied with each assembly.
- Ultra polish (UPC) supplied as standard and Angle polish (APC) also available.
- Qualify Telcordia standard and RoHS Complaint materials properties.
- Many different connector types such as FC, SC, ST, E2000, LC, DIN and others on request.
- Available in singlemode and multimode (50/125 and 62.5/125)
- Standard length supplied is 1m to 99m.
- Cable diameters available in 1.6mm, 2mm and 3mm.
- All connectors are supplied with ceramic ferrules.



FC/PC-FC/PC



LC/PC-LC/PC



SC/PC-SC/PC



SC/UPC-SC/UPC

### Applications

- FTTx
- CATV
- Data Communication
- Telecommunications
- Test and measurement

### Technical Data

	Singlemode (1310 / 1550nm)	Multimode (850nm)
Maximum Insertion Loss (dB)	≤ 0.3 Typical 0.2 (UPC and APC)	≤ 0.4 (UPC)
Return Loss (dB)	≥ 55 (UPC), ≥ 65 (APC)	Not measured
Intermateability	IEC 874-14	IEC 874-4
Operating temperature	-40°C to + 85°C	-40°C to + 85°C

### Ordering Information

Product code	Duplex/Simplex	Type of Connector	Length	SM/MM Mode	Sheath
ODPC	X	XXXX	XX	XX	X
	D - Duplex S - Simplex	SCSC - SC to SC SCFC - SC to FC SCST - SC to ST FCFC - FC to FC FCST - FC to ST STST - ST to ST LCLC - LC to LC LCSC - LC to SC LCFC - LC to FC LCST - LC to ST	1 - 1m 2 - 2m ⋮ 99 - 99m	SM - SM, 9μm M1 - OM1, 62.5μm M2 - OM2, 50μm M3 - OM3, 50μm M4 - OM4, 50μm	- N/A L - LSZH

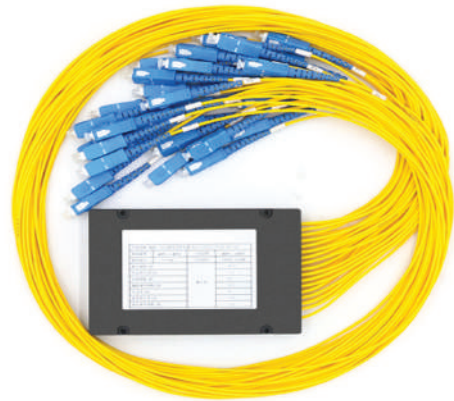
**Example**  
**ODPCDSCSC1SM** = SC to SC duplex singlemode 9μm fiber patchcord in 1 meter length.  
**ODPCSSCST1SML** = SC to ST simplex singlemode 9μm fiber patchcord in 1 meter length with LSZH jacket.

# ODPLC Series

## 1x4-64 Optical Fiber PLC Splitter

### Overview

The ODPLC series splitter for today's high-port count applications that demand the best performance and the highest reliability under the most adverse of environments. ODPLC Splitter modules deliver on all these requirements. The PLC module features low insertion loss, low polarization dependent loss, and high port-to-port uniformity. The PLC Splitter are available in 1x4-32 channel configurations with SC or LC pigtails.



### Features

- Low Insertion loss
- Good channel-to-channel uniformity
- High Reliability and Stability
- Excellent Environmental Stability and Widely Used

### Applications

- FTTx
- CATV Systems
- PON Networks
- Telecommunications

### Technical Data

	1x4 Port	1x8 Port	1x16 Port	1x32 Port	1x64 Port
	Maximum				
Operating Wavelength	1260-1650nm				
Insertion Loss	8.0dB	11.5dB	14.7dB	18.3dB	22.7dB
Insertion Loss Uniformity	1.0dB	1.2dB	1.7dB	2.2dB	2.6dB
Polarization Dependent Loss	0.3dB	0.3dB	0.4dB	0.45dB	0.49dB
Directivity	>55dB				
Return Loss	>50dB				
Maximum Optical Power	300MW				
Operating Temperature	-5°C to +65°C				
Storage Temperature	-40°C to +85°C				

### Ordering Information

**Product code**

ODPLC

**Channel**

XX

- 04 - 1x4 Port
- 08 - 1x8 Port
- 16 - 1x16 Port
- 32 - 1x32 Port
- 64 - 1x64 Port

**Type of Connector**

XX

- SC - SC connector
- LC - LC connector

**Example**

**ODPLC16LC** = 1x16 LC adapter PLC splitter.

# Bundle Fiber Pigtailes

## Multi Cores Rainbow Color Fiber Optic Pigtailes

### Overview

High performance multi core optical pigtailes ensuring performs to the highest level. Offering an extensive range of optical pigtailes for use in FTTx, telecommunications, data communications and CATV applications. All pigtailes are fully qualified to RoHS Compliant. Can be supplied in a variety of number of core and with a variety of different connector types.



### Features

- Full traceability and test certification supplied with each assembly.
- Ultra polish (UPC) supplied as standard and Angle polish (APC) also available.
- Qualify Telcordia standard and RoHS Compliant materials properties.
- Many different connector types such as FC, SC, ST, E2000, LC, DIN and others on request.
- Available in singlemode and multimode (50/125 and 62.5/125)
- Multi core color pigtailes are available.
- Cable diameters available in 0.9mm to 3mm.
- All connectors are supplied with ceramic ferrules.

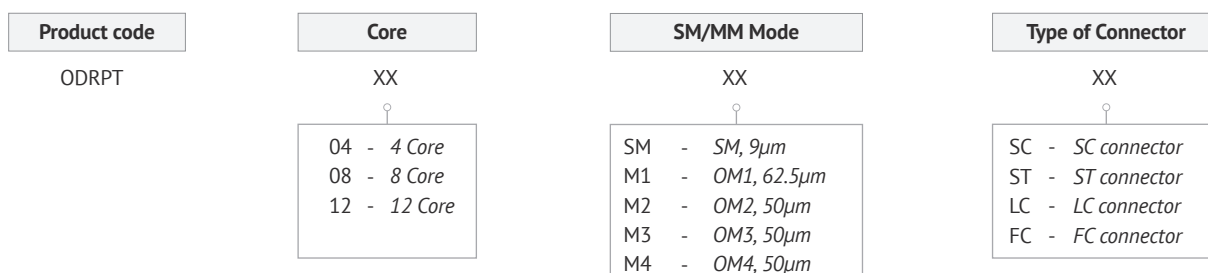
### Applications

- FTTx
- CATV
- Data Communication
- Telecommunications
- Test and measurement

### Technical Data

	UPC(SM)	APC(SM)	UPC(MM)
Maximum Insertion Loss		≤0.2dB	
Maximum Return Loss	≥50dB	≥60dB	≥35dB
Cable Diameter	2.0mm, 3.0mm		
Durability	1000 matings, <0.3dB		
Interchangeability	<0.2dB		
Operating Temperature	-40°C to +85°C		

### Ordering Information



**Example**

ODRPT12SMMLC = 12 Cores Singlemode LC connector bundle pigtailes.

# Waterproof Fiber Patchcord

## IP67 Waterproof Optical Fiber Pactcord

### Overview

The waterproof fiber optic patchcords are designed to fit for outdoor applications. The strong PU jacket and armored structure can resist high temperature and suit to use in harsh environment. The waterproof fiber patchcord connector meet IP66/67 environmental sealing ratings and are the ideal choice for a low cost and easy to use solution in industrial, fiber to the Antenna, or any other harsh environmental applications.

### Features

- High temperature stability
- Low insertion loss
- Water proof, dust proof and corrosion resistant
- Bump resistance
- Reliable and cost-effective installation
- Fully Water-blocked
- IP67 sheath sealing rating



### Applications

- FTTH
- FTTA
- LAN Tet equipment
- 3G,4G Base Station
- Horizontal and Vertical Cabling

### Optical Characteristics

	Singlemode	Multimode
Insertion Loss	0.20dB	0.30dB
Return Loss	50dB	35dB
Storage Temperature	-55°C to +85°C	-55°C to +85°C
Operating Temperature	-40°C to +70°C	-40°C to +70°C
Repetition Test (Additional Loss)	0.1dB	0.1dB
Repetition Test (Return Loss Variability)	<5dB	<5dB
Temperature Stability (Additional Loss)	0.2dB	0.2dB
Temperature Stability (Return Loss Variability)	<5dB	<5dB
Bump Resistance	4000 bumps @ 40g acceleration	4000 bumps @ 40g acceleration
Tensile Strength	Tensile of 1500N-cable dependent	Tensile of 1500N-cable dependent



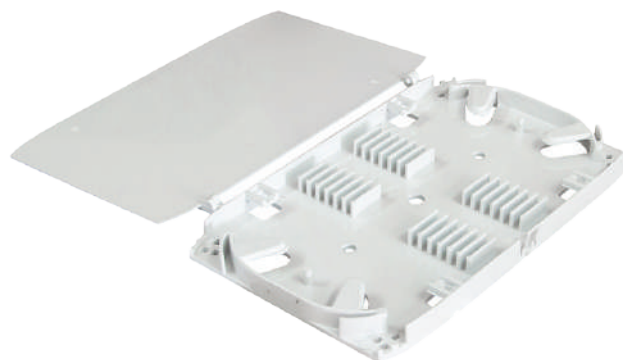
# ODTray

## Fiber Optic Splice Tray

### Overview

Fiber optic splice tray is used for optic fiber management, storage and fiber optic fusion splice protection, easy for installation and movement.

The splice tray expands fiber splice capabilities as well as provides the splicing location for fiber optic cables. It can be put into the fiber distribution frame, fiber splice closure, optic terminal box etc.



### Features

- Splice-tray configurations offered: 6 , 12 and 24 Fibers.
- Types of Splice Trays: Plastic (with a clear Cover)
- Can be used in 1U, 2U or 4U Rack-mount patch panels.

### Applications

- FTTx networks
- Data communication networks
- Indoor applications

### Specifications

Capacity	12-24 Ports
Adapter	Preloaded Adapters
Environment Temperature	-40°C ~ +80°C
Relative Humidity	≤85% (30°C)
Atmosphere Pressure	70 ~ 106KPa
Insulated Resistance	≥2×10MΩ/500V (DC)
Intensity	≤15kv (DC) /1min no spark-over
Fiber Bending Redius	≥40mm
Dimensions	1U x 430mm x 210mm
Weight	≤2kg (Empty)
Surface Finish	Special powder coating

### Available Options

ODTray0602	6-Port fiber optic splice tray	6-Port
ODTray1202	12-Port fiber optic splice tray	12-Port
ODTray2402	24-Port fiber optic splice tray	24-Port

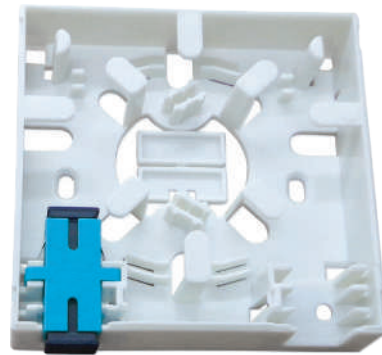
# ODFWS

## 86 x 86mm Fibre Wall Socket - Dual Fiber

### Overview

The compact fiber wall socket is designed for residential and business applications and holds up to four fiber terminations. This wall box enables the installation of either a single Sirocco Blown Tube cable using up to a 2 fiber blown unit or 2 fiber ruggedized cables to be spliced to 2 SC pigtails (PC or APC). The pigtails would which connect to adapters at the base of the unit.

This box is has a transparent plastic cover on the front adapter side, providing substantial protection to the installed fibers. The unit can be quickly installed within an office, house or communication room environment.



### Features

- SC simplex and duplex adapter
- Ergonomic design
- Ability to allow cables to enter from rear or bottom of unit
- 30mm minimum bend radius
- Flip tray to allow access to pigtails and cable entry
- Removable cover for easy access
- Manufactured from fire resistant UL94-Vo rated material
- Standard white color

### Applications

- FTTx networks
- Data communication networks
- Indoor applications

### Specifications

Height	86mm
Weight	86mm
Depth	25mm
Number Of Ports	1 or 2
Max. Splicing Capacity	2 Splices
Suitable For Adapter Type	SC simplex, SC Duplex
Number Of Cable Entry	2
Material	PC+ABS
Color	White
Operating Temperature	-40°C ~ +60°C
Complaint	RoHS, REACH/SvHC

# ODWMOP0404SC

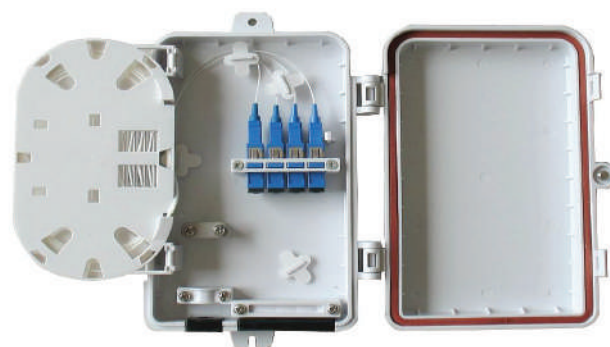
## 4-Port FTTH Fiber Termination Box c/w 4pcs SC Adapters

### Overview

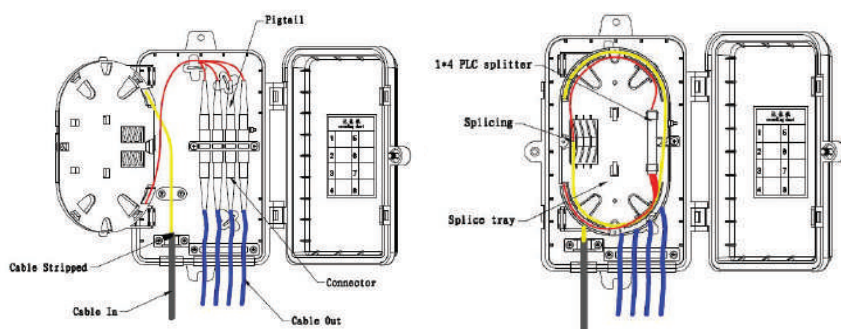
ODWMOP0404SC fiber optic termination box is suitable for FTTH, optical fiber splitting/splicing use. The enclosure is used with ABS plastic material, light weight, reasonable design for fiber arrangement, allows bend radius more than 30mm. It also suitable for 1pc 4-way splitter or 1pc 8-way splitter with LC connector (Steel tube type)

### Dimensions and Capabilities

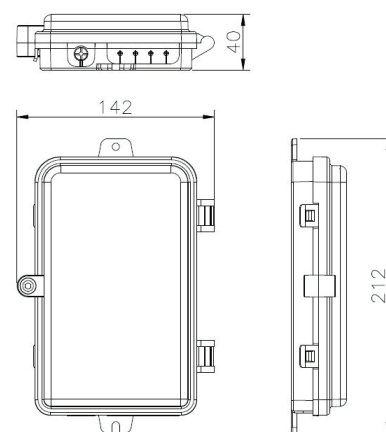
Height	212mm
Weight	142mm
Depth	40mm
Operating temperature	-5°C +40°C
Relative humidity	≤90%(+30°C)
Atmospheric pressure	70Kpa - 106Kpa
Storage temperature	-40°C +70°C
Optical parameter	Insertion loss≤0.3dB; Excess loss:≤0.2B; Return loss≥50dB
IP Standard	IP66



### Fiber arranging drawings



### Dimensions



# ODWMOP0808SC

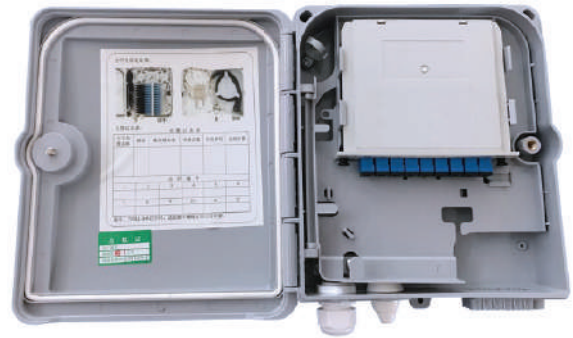
## 8-Port Fiber Termination Box c/w 8pcs SC Adapters

### Overview

This fiber optics distribution box offers spaces for splitters and up to 8 fusions, allocates 8 SC adapters and working under indoor or outdoor environments. It is a perfect cost-effective solution-provider in the FT Tx networks.

### Features

- Mechanical seal: good sealing, can repeat use
- Protective level: IP55
- Laying: outdoor wall-mounting and pole-mounting
- FTTH, passive optical points wiring special terminal box
- The box body to scroll type structure, it has the function of guard against theft, large capacity function complete
- Can be installed 1:8 SC module type splitter



### Dimensions and Capabilities

<b>Adapter Capacity</b>	SC: 8 cores
<b>Dimensions (W*H*D)</b>	230mm*198mm*60mm
<b>Number of Cable Entrance</b>	1
<b>Weight</b>	1.0kg
<b>Installation</b>	Adapters, Pigtails, Heat Shrink Tubes, Splice Tray, Optical Splitter Wall-Mounted or Pole-Mounting

### Operation Conditions

<b>Temperature</b>	-40°C ~ 60°C
<b>Humidity</b>	93% at 40°C
<b>Air Pressure</b>	62kPa – 101kPa

# ODWMOP1616SC

## 16-Port Fiber Termination Box c/w 16pcs SC Adapters

### Overview

This distribution box is used as a termination point for the feeder cable to connect with drop cable in FTTx communication network system. The fiber splicing, splitting, distribution can be done in this box, and meanwhile it provides solid protection and management for the FTTx network building.

### Features

- Total enclosed structure.
- Material: PC+ABS
- Wet-proof, water-proof, dust-proof, anti-aging
- Protection level up to IP65.
- Clamping for feeder cable and drop cable, fiber splicing, fixation, storage, distribution all in one.
- Suitable for SC and LC duplex adapter and pigtail
- Easy to operate
- Suitable for both outdoor and indoor use
- Protects and manages cable effectively



### Dimensions and Capabilities

<b>Adapter Capacity</b>	SC: 8 cores
<b>Dimensions (W*H*D)</b>	230mm*198mm*60mm
<b>Number of Cable Entrance/Exit</b>	1
<b>Weight</b>	1.0kg
<b>Optional Accessories</b>	Adapters, Pigtails, Heat Shrink Tubes, Splice Tray, Optical Splitter
<b>Insertion loss</b>	≤0.2dB
<b>UPC return loss</b>	≥50dB
<b>APC return loss</b>	≥60dB
<b>Life of insertion &amp; extraction</b>	≥1000 times

### Operation Conditions

<b>Temperature</b>	-40°C ~ 85°C
<b>Humidity</b>	≥85% at 30°C
<b>Air Pressure</b>	70kPa – 106kPa

# ODWMOP2424SC

## 24-Port Fiber Termination Box c/w 24pcs SC Adapters

### Overview

This distribution box is used as a termination point for the feeder cable to connect with drop cable in FTTx communication network system. The fiber splicing, splitting, distribution can be done in this box, and meanwhile it provides solid protection and management for the FTTx network building.



### Features

- Total enclosed structure.
- Material: PC+ABS
- Wet-proof, water-proof, dust-proof, anti-aging
- Protection level up to IP65.
- Clamping for feeder cable and drop cable, fiber splicing, fixation, storage, distribution all in one.
- Suitable for SC and LC duplex adapter and pigtail
- Easy to operate
- Suitable for both outdoor and indoor use
- Protects and manages cable effectively

### Dimensions and Capabilities

<b>Adapter Capacity</b>	SC: 24 cores
<b>Dimensions (W*H*D)</b>	230mm*198mm*60mm
<b>Number of Cable Entrance/Exit</b>	2
<b>Weight</b>	1.0kg
<b>Optional Accessories</b>	Adapters, Pigtails, Heat Shrink Tubes, Splice Tray, Optical Splitter
<b>Insertion loss</b>	≤0.2dB
<b>UPC return loss</b>	≥50dB
<b>APC return loss</b>	≥60dB
<b>Life of insertion &amp; extraction</b>	≥1000 times

### Operation Conditions

<b>Temperature</b>	-40°C ~ 85°C
<b>Humidity</b>	≥85% at 30°C
<b>Air Pressure</b>	70kPa – 106kPa

# ODWMOP2412LC

## Outdoor ABS Fiber Wall Mount Enclosure with Splicing Tray & Adapters

### Description

FTTH outdoor drop cable is constructed with two single mode fiber. The cable is protected by a dielectric strength member made of fiberglass reinforced plastic (FRP), steel wire and a LSZH outer jacket.

Designed for outdoor installation the cable is well suited for connections between the dome closure and small dwelling unit / warehouse and independent villas.

### Features

- IP65 rating for external use
- Lockable door for added security
- Integrated cable tie points for securing incoming cable
- Up to 24 splice & LC connection points
- Removable splice tray for easy installation
- Accepts loose tube, distribution and pre-terminated cables
- Integrated bend radius protection
- Sealing glands for up to 24 existing + 2 incoming cables
- Removable door for ease of installation
- Supplied with 24 heatshrink splice protectors
- Supplied with transit tubing
- Supplied with wall fixing and tie weaps
- RoHS, REACH & SvHC complaint

### Applications

- Data center
- Premise installations
- Telecommunication
- Networks Ethernet
- Fiber channel, ATM, LAN, MAN
- WAN Data communication and telecommunication networks Indoor/outdoor applications.



### Specifications

Height	340mm
Weight	270mm
Depth	110mm
Net Weight	1.8kg
IP Rating	IP65
Suitable For Adapter Type	LC simplex
Number Of Ports	24
Cable Entry	2
Material	ABS
Color	Grey Ray 7305
Operating Temperature	-40°C ~ +60°C
Complaint	RoHS, REACH/SvHC

# ODWMOP4848SC

## 48-Port Fiber Termination Box c/w 48pcs SC Adapters

### Overview

This distribution box is used as a termination point for the feeder cable to connect with drop cable in FTTx communication network system. The fiber splicing, splitting, distribution can be done in this box, and meanwhile it provides solid protection and management for the FTTx network building.



### Features

- Total enclosed structure.
- Material: PC+ABS, wet-proof, water-proof, dust-proof, protection level up to IP55.
- Clamping for feeder cable and drop cable, fiber splicing, fixation, storage, distribution...etc all in one.
- Cable, pigtails, patch cords are running through own path without disturbing each other, cassette type SC adaptor installation, easy maintenance.
- Cabinet can be installed by the way of wall-mounted or poled-mounted, suitable for both indoor and outdoor uses.



### Dimensions and Capabilities

Max. Capacity	Splitter: 48 / Splice: 48
Dimensions (W*H*D)	410mm*360mm*120mm
Insertion loss	≤ 0.2 dB
UPC return loss	≥ 50 dB
APC return loss	≥ 60 dB
Life of insertion and extraction	>1000 times

### Operation Conditions

Temperature	-40°C ~ 85°C
Humidity	85% at 30°C
Air Pressure	70kPa – 106kPa



# Wall Mount Enclosure (Indoor)

## Fiber Wall Mount Metal Enclosure With Adapters

### Overview

Most widely used premium panels for datacentre applications. The light weight and easier figures enable installation ease and smooth terminations. This fiber wall mount metal enclosure is preloaded with snap-in fiber adapters.



### Features

- Light weight design
- The shell is high intensified & insulated material, thus having excellent mechanic performance
- Full accessories for convenient operations
- Reliable fiber lead, grounding and perfect fix up
- Reliable pigtail fixes up and perfect protection



### Specifications

Capacity	6-24 Ports
Adapter	Preloaded Adapters
Environment Temperature	-40°C ~ +80°C
Relative Humidity	≤85% (when temperature is below 30°C)
Atmosphere Pressure	70 ~ 106KPa
Insulated Resistance	≥2×10MΩ/500V (DC)
Intensity	≤15kv (DC) /1min no spark-over
Fiber Bending Radius	≥40mm

### Available Options

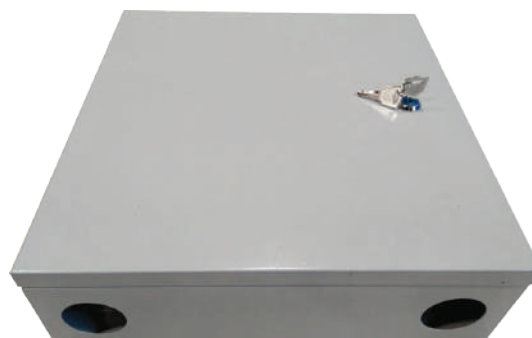
ODWMB0606SC	6-port wall mount metal enclosure c/w 6pcs SC adapters	SC, with 6pcs adapters
ODWMB1212SC	12-port wall mount metal enclosure c/w 12pcs SC adapters	SC, with 12pcs adapters
ODWMB2424SC	24-port wall mount metal enclosure c/w 24pcs LC adapters	SC, with 24pcs adapters
ODWMB2412LC	LC 24-port wall mount metal enclosure c/w 12pcs LC adapters	LC, with 12pcs adapters

# ODOM Series

## Outdoor Metal Termination Box with Splicing Tray & Adapters

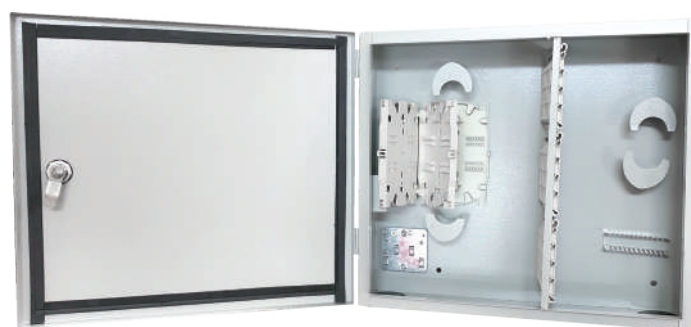
### Overview

ODOM-SC outdoor fiber optic termination box comes with splicing tray and fiber adapters. It is made of cold-rolled steel material with the surface treated with electrostatic spraying technique. And its ABS splicing tray can simultaneously splice 4, 6, 8, 12, 24 and more fibers. With IP65 standard, this outdoor fiber optic termination box is suitable for both indoor and outdoor wall mount or pole mount applications in FTTH, telecommunications, CATV and etc.



### Features

- Cold-rolled steel, reinforced structure, electrostatic spraying
- 2 fiber cable inlet/outlet ports, easily operation, compact structure, small size
- Splicing tray and fiber connector included
- SC or LC adaptor panels, total 48 ports
- Firmly reinforced structure, durable, fine appearance, with a lock, dust-proof, lifespan, 50 years
- Enclosure door can be open 180 °, free operation space
- Whole optic path design, Fiber bend radius>30mm
- Resonable fiber path, clear sign
- Capacity is optional from 4 cores to 48cores
- Entered cable spliced with pigtailed, indoor covered wires connecting quick connector, finally connect through SC/FC adaptors.



### Specifications

<b>Material</b>	Cold-rolled Steel
<b>Color</b>	Grey
<b>Environment Temperature</b>	-25°C ~ +55°C
<b>Relative Humidity</b>	<85% (when temperature is below 30)
<b>Atmospheric Pressure</b>	70 ~ 106KPa
<b>Insulation Resistance</b>	≥2×10 <sup>4</sup> MΩ/500VDC
<b>Voltage Resistance Strength</b>	no arc-cover under 3KVDC/1min
<b>Insertion Loss</b>	PC>40dB, UPC>50dB, APC>60dB
<b>Connection Life Span</b>	>1000 times

### Available Options

<b>ODOM2412SC</b>	24-port outdoor metal termination box with splicing tray, 12pcs SC adapters	24-port, with 12pcs adapters
<b>ODOM4824SC</b>	48-port outdoor metal termination box with splicing tray, 24pcs SC adapters	48-port, with 24pcs adapters
<b>ODOM7248SC</b>	72-port outdoor metal termination box with splicing tray, 48pcs SC adapters	72-port, with 48pcs adapters
<b>ODOM9648SC</b>	96-port outdoor metal termination box with splicing tray, 48pcs SC adapters	96-port, with 48pcs adapters

# GPX82-11

## Mini Cold-rolled Steel Distribution Frame

### Overview

Mini ODF is currently being widely used for distributing outdoor optical cable in indoor conditions. It is very suitable for FTTx uses. This box offers ideal environment for fibers to be spliced and well organized under indoor environment.

### Features

- The box has functions of cable termination, splicing, distribution and cross-connection.
- Solid structure with the advantages of good performance of dust-proof, pleasing and neat appearance.
- Easy installations: Wall mountable.
- Ideal for indoor uses – cable entrances & exits located on both top and bottom.
- Lock provided on every box ensures the safety of the fibers.
- The central adapter board separates the incoming cables and the exiting fibers
- Adoptable adapter types: SC, LC/Duplex



### Specifications

For Cross Connect (SC)	600*150*600	24
For Cross Connect (LC)	600*150*600	48
For Shell and Core buildings (SC)	600*300*600	48
For Shell and Core buildings (LC)	600*300*600	96
Splice Cabinet	600*300*600	216

### Operating Conditions

Temperature	-30°C ~ +75°C
Humidity	≤90% at 30°C
Air Pressure	70KPa ~ 106KPa

# ODTray Series

## Fiber Outdoor Termination Box With Splicing Tray

### Overview

The ODTray series inline enclosure is a horizontal type with a hinge on one side and an opening on the other side. Two insert plates, with fixing bolts, are used to fix and seal inline enclosure.

The ODTray series inline enclosure has our advanced formula, company patent elastic seal fitting, our fitting is made of injection-molded, high quality elastic material via numerical control equipment. It is installed between the enclosure housing and the insert plates.



### Specifications

	24 ~ 96F	144 ~ 192F
<b>Number of inlet/outlet ports</b>	6 ports (3 each side)	6 ports (3 each side)
<b>Suitable cable jacket diameter</b>	Ø8 ~ 16(mm)	Ø8 ~ 23(mm)
<b>Maximum capacity (F)</b>	Bunchy: 6 ~ 96 (Cores) Ribbon: Max. 144 (Cores)	Bunchy: 12 ~ 192 (Cores) Ribbon: Max.432 (Cores)
<b>Single piece package size</b>	460x220x120(mm)	460x220x120(mm)
<b>Single piece package weight</b>	2.9kg ~ 3.5kg	3.3kg ~ 3.6kg
<b>Group package size</b>	630x470x470(mm)	470x450x450(mm)
<b>Group package quantity</b>	10pcs/carton	6pcs/carton

### Available Options

<b>ODTray2401</b>	24-port fiber optic inline enclosure with 1 splic tray	24-Port, 1 Splice Tray
<b>ODTray4802</b>	48-port fiber optic inline enclosure with 2 splic trays	48-Port, 2 Splice Trays
<b>ODTray7203</b>	72-port fiber optic inline enclosure with 3 splic trays	72-Port, 3 Splice Trays
<b>ODTray9604</b>	96-port fiber optic inline enclosure with 4 splic trays	96-Port, 4 Splice Trays

## ODOP-LC Series

### Fiber Outdoor PVC Box with Splicing Tray & LC Adapters

#### Overview

The ODOP inline enclosure is a horizontal type with a hinge on one side and an opening on the other side. Two insert plates, with fixing bolts, are used to fix and seal inline enclosure.

The ODOP inline enclosure has our advanced formula, company patent elastic seal fitting, our fitting is made of injection-molded, high quality elastic material via numerical control equipment. It is installed between the enclosure housing and the insert plates.



#### Specifications

	24 ~ 96F	144 ~ 192F
Number of inlet/outlet ports	6 ports (3 each side)	6 ports (3 each side)
Suitable cable jacket diameter	Ø8 ~ 16(mm)	Ø8 ~ 23(mm)
Maximum capacity (F)	Bunchy: 6 ~ 96 (Cores) Ribbon: Max. 144 (Cores)	Bunchy: 12 ~ 192 (Cores) Ribbon: Max.432 (Cores)
Single piece package size	460x220x120(mm)	460x220x120(mm)
Single piece package weight	2.9kg ~ 3.5kg	3.3kg ~ 3.6kg
Group package size	630x470x470(mm)	470x450x450(mm)
Group package quantity	10pcs/carton	6pcs/carton

#### Available Options

ODTray2412LC	24-port fiber optic inline enclosure with 1 splice tray & 12pcs LC adapters	24-Port, 1 Splice Tray, 12 LC Adapters
ODTray4824LC	48-port fiber optic inline enclosure with 2 splice trays & 24pcs LC adapters	48-Port, 2 Splice Trays, 24 LC Adapters
ODTray7236LC	72-port fiber optic inline enclosure with 3 splice trays & 36pcs LC adapters	72-Port, 3 Splice Trays, 36 LC Adapters
ODTray9648LC	96-port fiber optic inline enclosure with 4 splice trays & 48pcs LC adapters	96-Port, 4 Splice Trays, 48 LC Adapters

# Rack Mount Patch Panel

## Fiber Rack Mount Patch Panel with Adapters

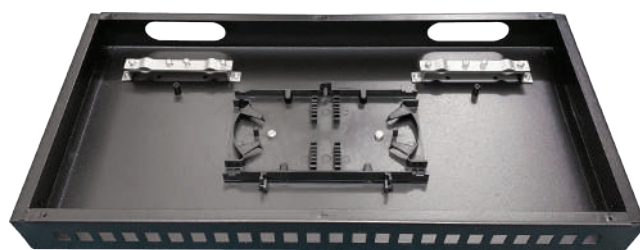
### Overview

Most widely used premium panels for datacentre applications. the light weight and easier figures enable installation ease and smooth terminations. This fiber rack mount metal enclosure is preloaded with snap-in fiber adapters.



### Features

- Light weight design
- The shell is high intensified & insulated material, thus having excellent mechanic performance
- Full accessories for convenient operations
- Reliable fiber lead, grounding and perfect fix up
- Reliable pigtail fixes up and perfect protection



### Specifications

Capacity	12-24 Ports
Adapter	Preloaded Adapters
Environment Temperature	-40°C ~ +80°C
Relative Humidity	≤85% (30°C)
Atmosphere Pressure	70 ~ 106KPa
Insulated Resistance	≥2×10MΩ/500V (DC)
Intensity	≤15kv (DC) /1min no spark-over
Fiber Bending Radius	≥40mm
Dimensions	1U x 430mm x 210mm
Weight	≤2kg (Empty)
Surface Finish	Special powder coating

### Available Options

ODRMB1212SC	SC 12-port rack mount metal enclosure c/w 12pcs SC adapters	SC, with 12pcs adapters
ODRMB2424SC	SC 24-port rack mount metal enclosure c/w 24pcs SC adapters	SC, with 24pcs adapters
ODRMB2406LC	LC 24-port rack mount metal enclosure c/w 6pcs LC adapters	LC, with 6pcs adapters
ODRMB2412LC	LC 24-port rack mount metal enclosure c/w 12pcs LC adapters	LC, with 12pcs adapters

# Drawer Patch Panel

## Fiber Drawer Rack Mount Patch Panel with Adapters

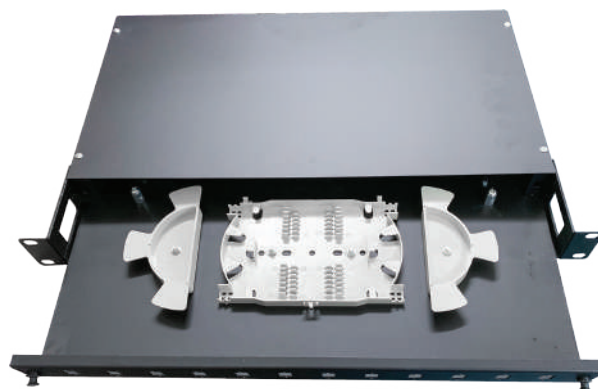
### Overview

Most widely used premium panels for datacentre applications. the light weight and easier figures enable installation ease and smooth terminations. This fiber rack mount metal enclosure is preloaded with snap-in fiber adapters.



### Features

- Light weight design
- The shell is high intensified & insulated material, thus having excellent mechanic performance
- Slidable, easy for installation
- Full accessories for convenient operations
- Reliable fiber lead, grounding and perfect fix up
- Reliable pigtail fixes up and perfect protection



### Specifications

Capacity	12-24 Ports
Adapter	Preloaded Adapters
Environment Temperature	-40°C ~ +80°C
Relative Humidity	≤85% (30°C)
Atmosphere Pressure	70 ~ 106KPa
Insulated Resistance	≥2×10MΩ/500V (DC)
Intensity	≤15kv (DC) /1min no spark-over
Fiber Bending RADIUS	≥40mm
Dimensions	1U x 430mm x 210mm
Weight	≤2kg (Empty)
Surface Finish	Special powder coating

### Available Options

ODDRM2424SC	SC 24-port drawer rack mount metal enclosure c/w 24pcs SC adapters	SC, with 24pcs adapters
ODDRM2414LC	LC 24-port drawer rack mount metal enclosure c/w 14pcs LC adapters	LC, with 14pcs adapters

# OD MTP/MPO Patch Panel

## Fiber Integrated Solution

### Overview

This High Density fiber patch panels are designed to accommodate high density applications in Data Centers and Telecommunication environments. This factory pre-populated and tested fiber patch panel saves on-site installation time and increase reliability, factory pre-loaded with Qty. 3 12/24/36 fiber LC Duplex OD MTP/MPO Cassettes or 12/24 OD-K Adapter Plates for quick implementations in 10/100G networks.

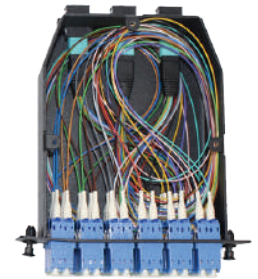


### Features

- UP to 108 Fiber LC Ports in 1U
- Flexibility to Mix Adapter Plates with Cassettes in Patch Panel
- Available in SM, OM1, OM2, OM3 and OM4 fiber grades
- Easily Accessible MPO/MTP Ports for Connection to Trunk Cable
- Factory terminated and tested
- MPO/MTP components feature superior optical and mechanical properties



OD-K Plate



ODK-J Cassette

### Specifications

<b>Height / Width</b>	1U (485mm*294mm*44mm)		
<b>Quantity of Cassette/Plate</b>	OD-J Cassette x 3	OD-K Plate x 3	Max Capacity 108
<b>Operating Temperature</b>	-20°C ~ +60°C		
<b>Storage Temperature</b>	-40°C ~ +70°C		
<b>Humidity</b>	90% at 30°C		
<b>Air Pressure</b>	70kPa – 106kPa		
<b>OD-J Cassette Technical Specifications</b>			
	<b>OD-J-1</b>	<b>OD-J-2</b>	<b>OD-J-3</b>
<b>Total Fiber Count</b>	12	24	36
<b>Front Adapter Type</b>	LC Duplex	LC Duplex	LC Duplex
<b>Front Port Count</b>	6	12	18
<b>Rear Adapter Type</b>	MTP/MPO	MTP/MPO	MTP/MPO
<b>Rear Port Count</b>	1	2	3
<b>OD-K Plate Technical Specifications</b>			
	<b>OD-K-1</b>	<b>OD-K-2</b>	
<b>Total Fiber Count</b>	12	24	
<b>Front Adapter Type</b>	LC Duplex	LC Duplex	
<b>Front Port Count</b>	6	12	





# 02

## NETWORK INFRASTRUCTURE

# OD5000 Series

## 24AWG CAT5E UTP Network Cables

### Overview

Each Cat5E UTP cable is performance optimized with 4 balanced twisted pairs on 24 AWG insulated solid bare copper conductors. OD Cat5E UTP cables are constructed to create a round and flexible cable for easy pulling and stripping of the PVC jacket.

### Applications

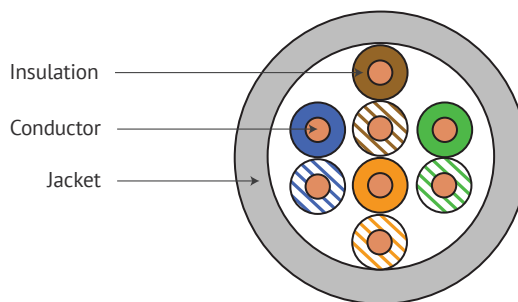
- Horizontal Wiring in LAN
- IEEE 802.3: 10/100/1000 Base-T
- IEEE 802.5 16MB
- Power Over Ethernet PoE/PoE+
- IEEE 802.3af and IEEE 802.3at

### Standards

- ANSI / TIA 568-C.2
- ISO / IEC 11801 2<sup>nd</sup> Ed
- IEC 61156-5 2<sup>nd</sup> Ed
- EN 50173; EN 50288-3-1:2013

### Physical Characteristics

<b>Conductor</b>	Solid Bare Copper
<b>AWG</b>	24
<b>Conductor Diameter</b>	0.5 (± 0.0005mm)
<b>Insulation</b>	PVC, LSZH
<b>Insulation Diameter</b>	Ø0.9mm
<b>Jacket</b>	PVC, LSZH
<b>Jacket Cover</b>	PVC, LSZH: Grey
<b>Outer Diameter</b>	4.8 (± 0.3mm)
<b>Weight</b>	28kg /km



### Mechanical Characteristics

<b>Minimum Bending Radius</b>	4 x Diameter
<b>Maximum Tensile Load</b>	Nom. 100N
<b>Maximum Tensile Load, Installed</b>	No Stretch
<b>Temperature During Operation</b>	-20°C ~ +60°C
<b>Temperature During Installation</b>	0°C ~ +50°C

### Electrical Characteristics

<b>Characteristic impedance (1-130 MHz)</b>	(100 ± 15) Ω
<b>Mean Characteristic impedance 100 Mhz</b>	(100 ± 5) Ω
<b>DC-loop resistance</b>	Nom. 170 Ω /km
<b>Resistance unbalance</b>	≤ 2 %
<b>Propagation Delay</b>	≤ 800 ns /km
<b>Skew, maximum at 100MHz</b>	≤ 200 ns /km
<b>Mutual capacitance</b>	Nom. 47 pF/m
<b>Capacitance unbalance (pair to ground)</b>	≤ 300 pF /km
<b>Nominal velocity of propagation (NVP)</b>	Nom. 69%

### Available Options

<b>OD5024</b>	OD 24AWG CAT5E UTP network cable, PVC	UTP, PVC
<b>OD5124</b>	OD 24AWG CAT5E UTP network cable, LSZH	UTP, LSZH

# OD6000 UTP Series

## 23AWG CAT6 UTP Network Cables

### Overview

Each Cat6 UTP cable is performance optimized with 4 balanced twisted pairs on 23 AWG insulated solid bare copper conductors. Each pair is separated by a center spline. OD Cat6 UTP cables are constructed to create a round and flexible cable for easy pulling and stripping of the PVC jacket.

### Applications

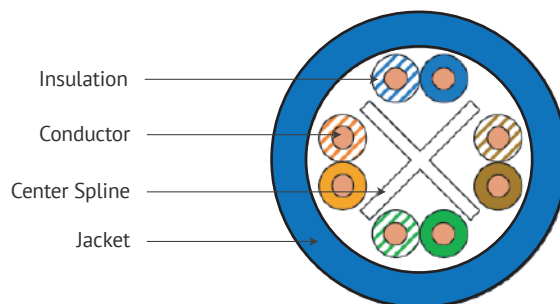
- Horizontal Wiring in LAN
- IEEE 802.3: 10/100/1000 Base-T
- IEEE 802.5 16MB
- Power Over Ethernet PoE/PoE+
- IEEE 802.3af and IEEE 802.3at

### Standards

- ANSI / TIA 568-C.2
- ISO / IEC 11801 2<sup>nd</sup> Ed
- IEC 61156-5 2<sup>nd</sup> Ed
- EN 50173; EN 50288-3-1:2013

### Physical Characteristics

Conductor	Solid Bare Copper
AWG	23
Conductor Diameter	0.56 (± 0.0005mm)
Insulation	PVC, LSZH
Insulation Diameter	Ø0.98mm
Jacket	PVC, LSZH
Jacket Cover	PVC, LSZH: Blue
Outer Diameter	6.3 (± 0.3mm)
Weight	40kg /km



### Mechanical Characteristics

Minimum Bending Radius	4 x Diameter
Maximum Bending Radius	4 x Diameter
Temperature During Operation	-20°C ~ +60°C
Temperature During Installation	0°C ~ +50°C

### Electrical Characteristics

Characteristic impedance (1-130 MHz)	(100 ± 15) Ω
Mean Characteristic impedance 100 Mhz	(100 ± 5) Ω
DC-loop resistance	Nom. 150 Ω /km
Resistance unbalance	≤ 2 %
Propagation Delay	≤ 800 ns /km
Skew, maximum at 100MHz	≤ 400 ns /km
Mutual capacitance	Nom. 50 pF /km
Capacitance unbalance, maximum	≤ 1600 pF /km
Nominal velocity of propagation (NVP)	≤ 1600 pF /km
Attenuation @ 250Mhz	Mon. 69%

### Available Options

OD6423	OD 23AWG CAT6 UTP network cable, PVC	UTP, PVC
OD6123	OD 23AWG CAT6 UTP network cable, LSZH	UTP, LSZH

# OD6823F

## 23AWG CAT6 FTP Network Cable

### Overview

Each Cat6 FTP cable is performance optimized with 4 balanced twisted pairs on 23 AWG insulated solid bare copper conductors. Each pair is separated by a center spline. OD Cat6 FTP cables are constructed to create a round and flexible cable for easy pulling and stripping of the PVC jacket.

### Applications

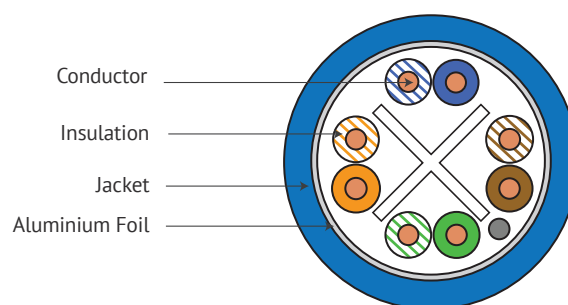
- Horizontal Wiring in LAN
- IEEE 802.3: 10/100/1000 Base-T
- IEEE 802.5 16MB
- Power Over Ethernet PoE/PoE+
- IEEE 802.3af and IEEE 802.3at

### Standards

- ANSI / TIA 568-C.2
- ISO / IEC 11801 2<sup>nd</sup> Ed
- IEC 61156-5 2<sup>nd</sup> Ed
- EN 50173; EN 50288-3-1:2013

### Physical Characteristics

<b>Conductor</b>	Solid Bare Copper
<b>AWG</b>	23
<b>Conductor Diameter</b>	0.56 (± 0.0005mm)
<b>Insulation</b>	LSZH
<b>Insulation Diameter</b>	Ø0.98mm
<b>Jacket</b>	LSZH
<b>Jacket Cover</b>	LSZH: Blue
<b>Outer Diameter</b>	6.3 (± 0.3mm)
<b>Weight</b>	40kg /km



### Mechanical Characteristics

<b>Minimum Bending Radius</b>	4 x Diameter
<b>Maximum Bending Radius</b>	4 x Diameter
<b>Temperature During Operation</b>	-20°C ~ +60°C
<b>Temperature During Installation</b>	0°C ~ +50°C

### Electrical Characteristics

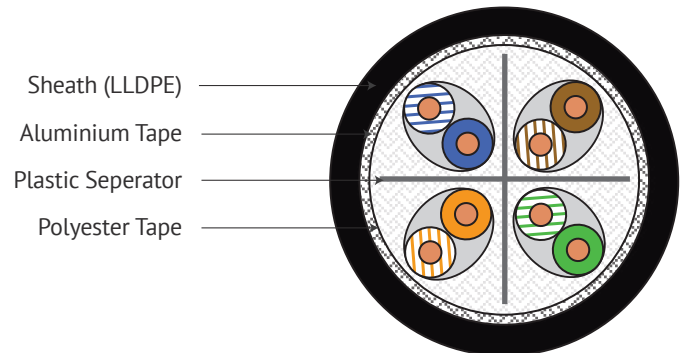
<b>Characteristic impedance (1-130 MHz)</b>	(100 ± 15) Ω
<b>Mean Characteristic impedance 100 Mhz</b>	(100 ± 5) Ω
<b>DC-loop resistance</b>	Nom. 150 Ω /km
<b>Resistance unbalance</b>	≤ 2 %
<b>Propagation Delay</b>	≤ 800 ns /km
<b>Skew, maximum at 100MHz</b>	≤ 400 ns /km
<b>Mutual capacitance</b>	Nom. 50 pF /km
<b>Capacitance unbalance, maximum</b>	≤ 1600 pF /km
<b>Nominal velocity of propagation (NVP)</b>	≤ 1600 pF /km
<b>Attenuation @ 250Mhz</b>	Mon. 69%

# OD6823PE

## 23AWG CAT6 UTP Outdoor PE Network Cable

### Physical Characteristics

Conductor	Solid Bare Copper
AWG	23
Conductor Diameter	0.57mm
Insulation	HDPE
Insulation Diameter	1.02~1.04mm
Polyester Tap	25x0.035mm
Aluminium Tap	28x0.25mm
Plastic Separator	4.2x0.45mm
Sheath	LLDPE
Sheath Thickness	1.4±0.1mm
Sheath Diameter	9.0±0.2mm
Color	Black



### Standards

- TIA/EIA-568C.2
- ISO\_IEC 11801
- YD/T 1019

### Electrical Properties

Conductor Resistance (20°C)	≤9.5 Ω/ 100m
Electrical Resistance Unbalance ( 20°C)	≤2.5%
Insulation Resistance	>5000 MΩ·km
Pair to Ground Capacitance Unbalance (0.8 KHz or 1KHz)	≤330pF/100m
Mutual Capacitance of Pair	≤5.6nF/100m

### Transmission Properties(Fluke Testing)

Frequency MHz	Zin	RL	IL	NEXT	PS NEXT	ELFEXT	PS ELFEXT
	Ω	dB/100m	dB	dB/100m	dB/100m	dB/100m	dB/100m
1.0	100±15	≤1.8	≥20.0	≥74.3	≥72.3	≥68	≥65.0
4.0		≤3.7	≥23.0	≥65.3	≥63.3	≥56.0	≥53.0
8.0		≤5.3	≥24.5	≥60.8	≥58.8	≥50.0	≥46.9
10.0		≤5.9	≥25.0	≥59.3	≥57.3	≥48.0	≥45
16.0		≤7.5	≥25.0	≥56.2	≥54.3	≥43.9	≥40.9
20.0		≤8.4	≥25.0	≥54.8	≥52.8	≥42.0	≥39.0
25.0		≤9.5	≥24.3	≥53.3	≥51.3	≥40.0	≥37.0
31.25		≤10.6	≥23.6	≥51.9	≥49.9	≥38.1	≥35.1
62.5		≤15.4	≥21.5	≥47.4	≥45.4	≥32.1	≥29.1
100		≤19.8	≥20.1	≥44.3	≥42.3	≥28	≥25
155		≤25.1	≥18.0	≥41.1	≥39.4	≥24.2	≥21.2
250		≤32.8	≥17.3	≥38.3	≥36.3	≥20	≥17.0

# OD6023J

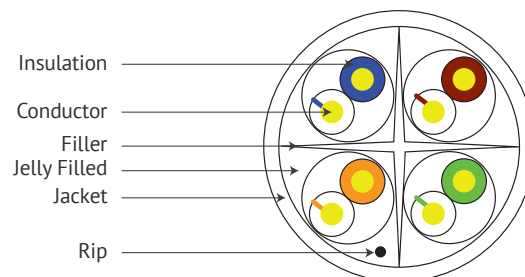
## CAT6 23AWG Jelly-filled Outdoor UTP Network Cable

### Description

- Rated temperature of 75°C
- Product Standard Certification: UL file E222804
- Flammability Tested

### Applications

- Horizontal Wiring in LAN
- IEEE 802.3: 10/100/1000 Base-T
- IEEE 802.5 16MB
- Power Over Ethernet PoE/PoE+
- IEEE 802.3af and IEEE 802.3at



### Standards

- ANSI / TIA 568-C.2
- ISO / IEC 11801 2<sup>nd</sup> Ed
- IEC 61156-5 2<sup>nd</sup> Ed
- EN 50173; EN 50288-3-1:2013

### Physical Characteristics

<b>Conductor</b>	Solid Bare Copper
<b>AWG</b>	23
<b>Conductor Diameter</b>	0.57 (± 0.0005mm)
<b>Insulation</b>	PE
<b>Filter</b>	PE
<b>Jelly-filled</b>	Yes
<b>Jacket</b>	PE
<b>Thickness</b>	0.55 (± 0.05mm)
<b>Outer Diameter</b>	6.3 (± 0.05mm)
<b>Rip Cord</b>	Per request

### Performance

Frequency (MHz)	Return Loss (dB)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB)
1.00	20.00	1.84	74.30	
4.00	23.01	3.69	65.27	
8.00	24.52	5.26	60.75	
10.00	25.00	5.89	59.30	
16.00	25.00	7.51	56.24	
20.00	25.00	8.43	54.78	
25.00	24.32	9.47	53.33	
31.25	23.64	10.64	51.88	
62.25	21.54	15.36	47.36	
100.00	20.11	19.78	44.30	
200.00	18.00	28.97	39.78	
250.00	17.32	32.84	38.33	

Frequency (MHz)	PSNEXT (dB)	ELNEXT (dB/100m)	PSELFEXT (dB)	DELAY (dB)
1.00	72.30	68.00	65.00	570.00
4.00	63.27	55.96	52.96	552.00
8.00	58.75	49.94	46.94	546.73
10.00	57.30	48.00	45.00	545.38
16.00	54.24	43.92	40.92	543.00
20.00	52.78	41.98	38.98	542.05
25.00	51.33	40.04	37.04	541.20
31.25	49.88	38.10	35.10	540.44
62.25	45.36	32.08	29.08	538.55
100.00	42.30	28.00	25.00	537.60
200.00	37.78	21.98	18.98	536.50
250.00	36.33	20.04	17.04	536.28

# OD6123L

## CAT6 23AWG Stranded Fire Resistant Elevator S/FTP Network Cable

### Description

- CAT6 stranded fire resistant elevator S/FTP cable
- 23AWG stranded copper conductor (10/0.18)
- Bare copper braid shield, 85% coverage
- Aluminium foil 100% coverage
- Double PVC jacket & fire resistance jacket (red color)

### Applications

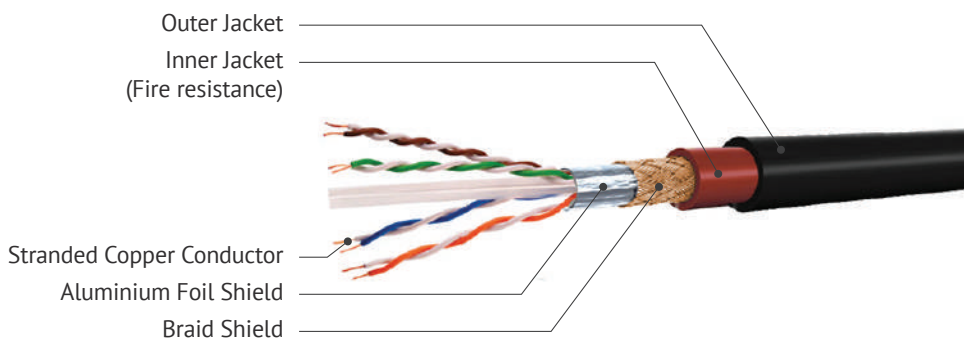
- Horizontal Wiring in LAN
- IEEE 802.3: 10/100/1000 Base-T
- IEEE 802.5 16MB
- Power Over Ethernet PoE/PoE+
- IEEE 802.3af and IEEE 802.3at

### Standards

- ANSI / TIA 568-C.2
- ISO / IEC 11801 2nd Ed
- IEC 61156-5 2nd Ed
- EN 50173; EN 50288-3-1:2013

### Construction

<b>Conductor</b>	Stranded Copper
<b>AWG</b>	23
<b>Conductor Diameter</b>	0.18 (± 0.003mm)
<b>Stranding</b>	10/0.18
<b>Insulation</b>	HDPE 1.02
<b>Insulation Diameter</b>	0.186
<b>Outer Shield</b>	Bare Copper
<b>Braid</b>	24/7/0.12
<b>Coverage</b>	85% (Tape Aluminium Foil)
<b>Outer Jacket</b>	PVC
<b>Diameter</b>	ø8.0 (± 0.02mm)
<b>Thickness</b>	0.8mm
<b>Color</b>	Black
<b>Inner Jacket</b>	Fire Resistance PVC
<b>Diameter</b>	0.5 (± 0.02mm)
<b>Color</b>	Red
<b>Fire Resistance Temperature</b>	70°C
<b>Pair</b>	4 (8 cores)



### Mechanical Characteristics

<b>Bending Radius</b>	with load	8 x D
	without load	4 x D
<b>Temperature</b>	during operation	-40°C to +85°C
	during installation	-15°C to +50°C
<b>Fire Load</b>	4 pair	(on request) Mj/km
<b>Max. Tensile Load</b>	during operation	100N

### Electrical Properties at 20°C

<b>DC loop resistance</b>	-	≤138Ω/km
<b>Resistance unbalance</b>	-	≤2%
<b>Insulation resistance</b>	(500V)	≥5000MxΩkm
<b>Capacitance</b>	at 800MHz	Nom. 43nF/km
<b>Capacitance unbalance</b>	(pair to ground)	≤5000pF/km
<b>Mean Characteristic</b>	@ 100MHz	100±5Ω
<b>Nom. Velocity of Pro.</b>	-	0.76c
<b>Propagation Delay</b>	-	≤450ns/100m
<b>Delay Skew</b>	-	≤15ns/100m
<b>Transfer Impedance</b>	at 1 MHz	≤10mΩ/m
	at 10 MHz	≤8mΩ/m
	at 30 MHz	≤10mΩ/m
<b>Coupling Attenuation</b>	-	≥85dB

# Patchcord

## Stranded Network Patchcords

### Overview

Optic Digital CAT6 UTP patch cord are designed to assure high performance over longer distances. The patch cords are composed of 4-pairs, 24/7 AWG stranded conductors. The patch cords are terminated in factory with 8P8PC 50u" gold plated RJ45 plugs, boots are molded onto RG45 plug to ensure better connection. All patch cords are 100% tested in factory to ensure Gigabit performance.



### Features

- 10 Gigabit performance
- Flexible stranded bare copper conductors patch cable
- 2xRJ45 connector (TIA568-B coding)
- Comes with molded strain relief boots
- Comes in various colors
- 100% factory terminated
- 100% factory tested

### Standards

- ANSI / TIA 568-C.2
- ISO / IEC 11801 2<sup>nd</sup> Ed; EN 50173
- IEC 61935-2; IEC 60603-7

### Specifications

<b>RJ45 Plug</b>	8P8C 50u" gold plated
<b>Insulation Resistance</b>	500mΩ (max.)
<b>Contact Resistance</b>	200mΩ (max.)
<b>Current Rating</b>	1.5Amps
<b>DC Resistance</b>	0.1Ω (max.)
<b>Withstanding Voltage</b>	1000 VAX RMS @ 60Hz/1min

### Ordering Information

Product code	Category Type	AWG	U/UTP or F/UTP	Color	PVC / LSZH	Length
ODPC	XX	X	X	XX	X	X
	50 - CAT5e 60 - CAT6 6A - CAT6a	4 - 24AWG 6 - 26AWG	U - U/UTP F - F/UTP	GY - Grey GN - Green RD - Red BL - Blue YL - Yellow VL - Purple	P - PVC L - LSZH	1 - 1meter 2 - 2meter 3 - 3meter 90 - 90meter

#### Example

**ODPC604UGYP-3** = CAT6 24AWG U/UTP, Grey color patch cord with PVC jacket in 3 meter length.

#### Basic Info

CAT5e & CAT6 U/UTP, common with 24AWG stranded copper.  
 CAT5e & CAT6 F/UTP, common with 26AWG stranded copper.  
 CAT6a U/FTP & S/FTP, common with 26AWG stranded copper.



# Faceplate

## Classic Multi Gang Faceplates (White)

### Overview

ODFP-G series faceplates are a perfect fitting for cables that have been run between rooms beneath floors and behind walls. The wires can be attached to the keystone jack at the back of the sockets in just a few minutes, using an IDC termination tool which is a small scale technician's tool for guiding wires into small sockets.

### Features

- Supplied with 1/2/4 keystone RJ-45 modular sockets
- Can be used over distances up to 100m/328ft for networking purposes
- TIA/EIA-568-A/B UTP wiring layout
- IDC termination points
- Fits a standard single back box
- Fixing screws supplied
- Standards - ROHS Compliant and CE Approved



### Specifications

Type	Faceplate
Advantage	With Shutter
Port	1 / 2 / 4
Color	White
Cover Material	ABS
Size	86 x 86mm
Accessories	2 screws
Net Weight	42g

### Available Options

ODFP0100G	1 Gang classic RJ45 faceplate	1 Gang
ODFP0200G	2 Gang classic RJ45 faceplate	2 Gang
ODFP0400G	4 Gang classic RJ45 faceplate	4 Gang

# Faceplate System

## Faceplate Frames

### ODFPI01

86x86mm Single Port Faceplate Frame



#### Specifications

Termination	4 Screws Terminal
Finish	White Plastic
Dimensions (H x W)	86mm x 86mm

#### Order Information

ODFPI01	Single port faceplate frame, UK frame (86x86)
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### ODFPI02

86x86mm Dual Port Faceplate Frame



#### Specifications

Termination	4 Screws Terminal
Finish	White Plastic
Dimensions (H x W)	86mm x 86mm

#### Order Information

ODFPI02	Dual port faceplate frame, UK frame (86x86)
---------	---

### ODFPI03

86x86mm Triple Port Faceplate Frame



#### Specifications

Termination	4 Screws Terminal
Finish	White Plastic
Dimensions (H x W)	86mm x 86mm

#### Order Information

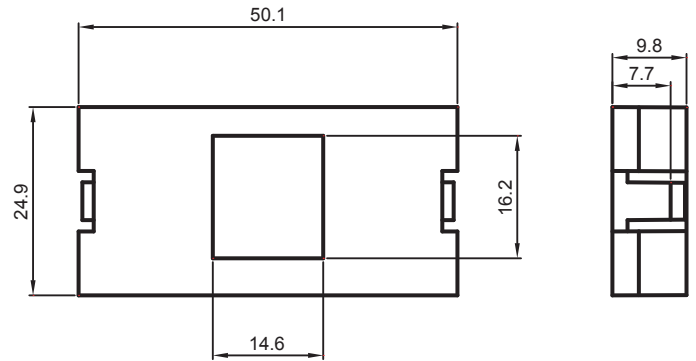
ODFPI03	Triple port faceplate frame, UK frame (86x86)
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# Snap-In Module

## Network & Fiber Snap-In Modules

### ODIRJ

1" RJ45 Keystone Jack Snap-In Module

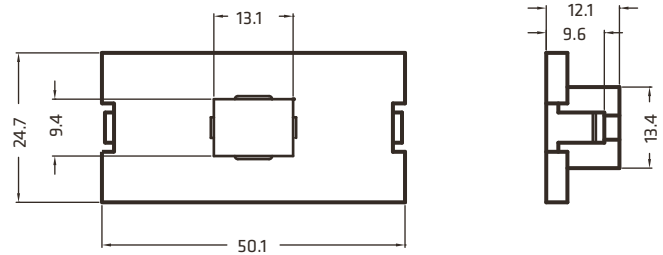


- Fits 10G Surface Mount Box
- RoHS Compliant

<b>ODIRJ</b>	1" RJ45 keystone jack snap-in module,	Snap-in, RJ45 keystone jack
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### ODILCSC

1" Snap-In Module, Single Keystone Adapter

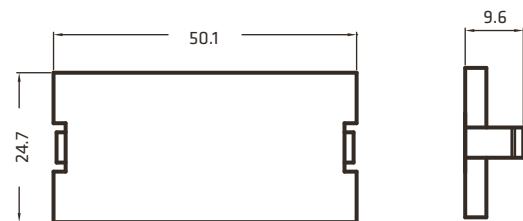


- Fits Fiber Surface Mount Box
- RoHS Compliant

<b>ODILCSC</b>	1" SC & LC fiber snap-in module,	Snap-in, SC/LC Fiber
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### ODI01

1" Snap-In Blank Module



- Fits Surface Mount Box
- RoHS Compliant

<b>ODI01</b>	1" Snap-in blank module	Snap-in, Blank
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# Keystone Jack

## RJ45 Network Keystone Jacks

### Overview

The OD Keystone jacks are designed to meet the industry standard TIA/EIA 568-C.2 requirements, it works in conjunction with the cables to go faceplates and surface boxes or any standard keystone and angled multimedia faceplate or patch panel. Each keystone jack includes 110-type IDC straight-back termination with strain relief caps, and comes with standard gold plating on the jack contacts.

### Features

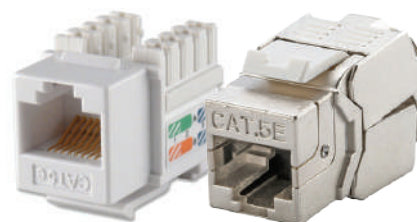
- Easy to use, modular CAT6 RJ45 Keystone jack for ethernet.
- 110 type IDC punch down connectors
- 90 degree wire connection.
- Can be used with keystone wall plate or patch panel.
- Standard keystone size
- Color coded wiring diagram next to wire clips.
- 568A and B compliant.
- UL listed.
- Includes clear plastic termination cap.

### Standards

- ANSI / TIA 568-C.2
- ISO / IEC 11801 2<sup>nd</sup> Ed
- IEC 60603-7-[4, 5]
- EN 50173-1; EN 50173-2

### Available Options

<b>ODKJ5003P</b>	CAT5e unshielded keystone jack	CAT5e, unshielded
<b>ODKJ5003S</b>	CAT5e shielded keystone jack	CAT5e, shielded
<b>ODKJ6006P</b>	CAT6 unshielded keystone jack	CAT6, unshielded
<b>ODKJ6006FP</b>	CAT6 FTP unshielded keystone jack	CAT6, FTP, unshielded
<b>ODKJ6806P</b>	CAT6a unshielded keystone jack	CAT6a, unshielded
<b>ODKJ6806S</b>	CAT6a shielded keystone jack	CAT6a, shielded



CAT5e Unshielded Jack

CAT5e Shielded Jack



Shielded CAT6a Jack

Unshielded CAT6a Jack

Unshielded CAT6 Jack

### Specifications

<b>Type</b>	Panel-type Unshielded RJ-45 (8P8C)
<b>Termination</b>	110/KRONE IDC vertical punchdown
<b>AWG Wire</b>	22 - 26AWG Wires
<b>Contact Surface Finish</b>	50u" gold plated over contact area
<b>IDC Surface Finish</b>	Tin plated
<b>Support Wiring</b>	Dual T568A & T568B
<b>Applications</b>	Any unloaded keystone faceplate or patch panel
<b>Certifications</b>	UL listed; Complies with FCC Part 68
<b>Color</b>	White
<b>Weight</b>	0.3lbs

# ODRB

## RJ45 Connector Rubber Boots Network Cable Ends Plug

### Overview

Rubber boots improve the identification and durability of patch cords terminated with the industry standard RJ45 plug. They can be used when creating a network cable and come in a range of colors to match the cable used. Our flexible rubber boots ensure ease of latch disengagement.

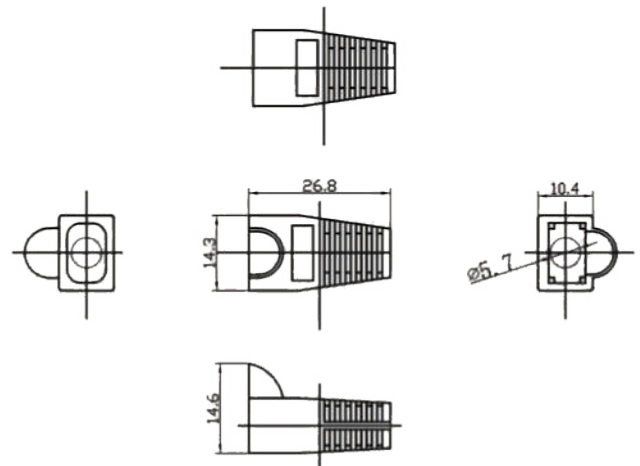
### Features

- Strain relief moulded boots for RJ45 connections
- For quick and easy identification of your network cables
- Apply during cable assembly on Cat5e or Cat6 cables



### Specifications

Material	PVC Plastic
Moulding Length	26.8mm
Moulding Width (plug end)	14.3mm
Moulding Width (cable end)	8mm
Cable Aperture Width	5.7mm
Rubber Thickness	1.3mm



# ODRJ Connector

## RJ45 Modular Plug 8-Pin Network Connectors

### Features

- Gold plated leads for better data transmitting and higher signal strength
- Suitable for 26-23AWG network cable
- Single piece construction
- UL1863 standard and RoHS Compliant



### Specifications

PHYSICAL CHARACTERISTICS	
Plug Type	Modular Plug
Contact Blade	Phosphor bronze plated with 50u" gold over 100u" nickel undercoat
ELECTRICAL CHARACTERISTICS	
Current Rating	1.5 A maximum
Characteristic Impedence	100 Ohms
Insulation Resistance	100 Mohms Min
Contact Resistance	20 Mohms Max
Voltage Rating	30 VAC maximum
MECHANICAL CHARACTERISTICS	
Cable Retention Force	40 lbs Max
Max Insertion and Withdrawal Force	22 N
Humidity	10% to 90% R.H.
WIRE RANGE	
Conductor Diameters	0.41mm to 0.52mm (26AWG to 23AWG)
Conductor Type	Solid; Stranded
Insulation Diameters	0.98mm to 1.05mm
Cable Diameters	5.0mm to 7.0mm
APPLICABLE STANDARDS	
UL Specification	UL 1863
EIA Specification	EIA-364
EU RoHS Compliant (Y/N)	Y

### Available Options

ODRJ4563	CAT6 3Mil unshielded RJ45 network modular plug connector	CAT6, 3Mil
ODRJ4566	CAT6 6Mil unshielded RJ45 network modular plug connector	CAT6, 6Mil
ODRJ4569S	CAT6 FTP RJ45 network modular plug connector	CAT6, FTP
ODRJ4579S	CAT7 STP RJ45 network modular plug connector	CAT7, STP
ODRJ1103	CAT3 unshielded RJ11 modular plug connector	CAT3
ODRJ6688	CAT6 toolless unshielded modular plug connector	CAT6, Toolless
ODRJ6689A	CAT6a toolless unshielded modular plug connector	CAT6a, Toolless
ODRJ4566PT	CAT6 RJ45 Pass Through Connector 6 Mil	CAT6, Pass Through

# Network Patch Panel

## 24-Ports Full Loaded UTP Patch Panels

### Overview

The OD 24-ports patch panels offer cost-effective solution to achieve high performance that exceeds ANSI/TIA-568 Category CAT5e and CAT6 standards. This horizontal patch panel is designed with rear 110 IDC's for quick and easy punch-down termination. It also comes integrated with a universal label for either 568-A or B wiring. Package includes #12 rack screws.



### Features

- Provides excellent performance for data networks requiring maximum speed and bandwidth
- Enhanced crosstalk cancellation reduces return loss and improves performance by rejecting noise and unwanted signals
- Exceeds ANSI/TIA-568-C.2 CAT5e & CAT6 connecting hardware requirements
- Engineering to provide 110 IDC termination reducing installation time
- Includes both T568A and T568B color wiring diagrams
- Backwards compatible to all lower rated category components
- Designed to fit all standard 19" racks and cabinets
- 1 rack mount space (RMS)

### Performance

<b>Wiring</b>	TIA 568 A/B
<b>IDC Type</b>	110
<b>Insertion Force</b>	≤ 30N
<b>Plug Insertion Life</b>	800 times insertion (RJ45)
<b>Wire Size Capacity</b>	22 - 26 AWG solid wire

### Specifications

<b>Capacity</b>	24 connectors (RJ45)
<b>Front Connection</b>	Flush
<b>Termination Area</b>	Rear
<b>Material</b>	Steel
<b>Color</b>	Black
<b>Size</b>	1U

### Available Options

<b>ODPP5e24</b>	CAT5e 24-port fully loaded UTP punch-down network patch panel	CAT5e, 24-port
<b>ODPP6024</b>	CAT6 24-port fully loaded UTP punch-down network patch panel	CAT6, 24-port
<b>ODPP6024EM</b>	CAT6 24-port empty UTP punch-down network patch panel	CAT6, 24-port, Empty

# ODCM1UM

## 1U Horizontal Cable Management

### Features

- 19" 1U metal cable management AMP style
- Suitable for 19 inch standard cabinets and wall mount
- Whole body is made of carbon steel, 1.20mm of thnikness
- Effective in simplification and standardization of cross wiring arrangement
- Nice appearence, high quality



### Available Options

ODCM1UM	19" 1U Horizontal Cable Management	19" 1U
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# 03

## INSTALLATION CABLES

# ODRG5981

## RG59 20AWG 75Ω Coaxial Cable

### Description

- RG59 20AWG 75Ω coaxial cable
- 20AWG 0.812mm bare copper covered steel conductor
- Foam polyethylene insulation
- Foil & aluminium braid shield
- PVC jacket

### Applications

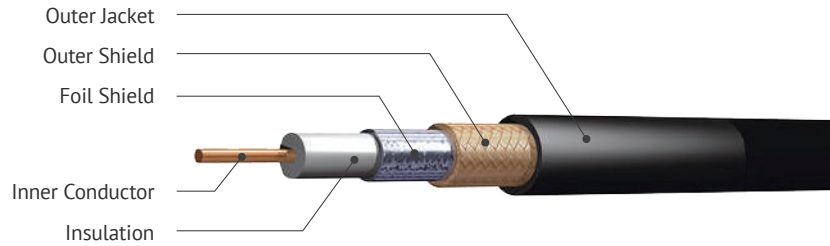
- Carry baseband video in closed-circuit television.

### Physical Characteristics (Overall)

Inner Conductor	Bare Copper Covered Steel
AWG	20
Conductor Diameter	0.812mm
Stranding	Solid
Insulation	Foam Polyethylene
Insulation Diameter	3.65mm
Outer Shield	Aluminium braid
Coverage	65%
Foil Shield	Aluminium Foil
Outer Jacket	PVC - Polyvinyl Chloride
Overall Cable	
Overall Nom. Diameter	6.0mm

### Mechanical Characteristics (Overall)

Operating Temperature Range	-30°C ~ +60°C
Non-UL Temperature Rating	60°C
Bulk Cable Weight	43 Kg/Km
Max. Recommended Pulling Tension	243 N
Min. Bend Radius/Minor Axis	60.2 mm
Suitability	Indoor
Plenum (Y/N)	N



### Electrical Characteristics (Overall)

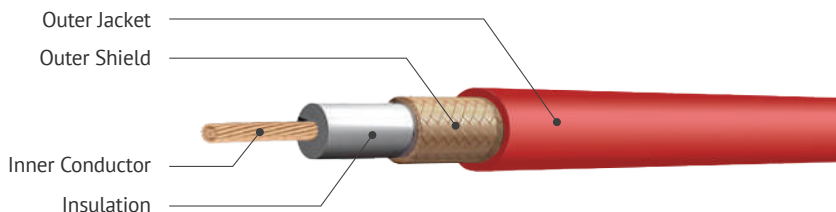
<b>Nom. Characteristic Impedance</b>	
Impedance	75Ω
<b>Nom. Inductance</b>	
Inductance	0.29529μH/m
<b>Nom. Capacitance Conductor to Shield</b>	
Capacitance	53.14pF/m
<b>Nominal Velocity of Propagation</b>	
VP	83%
<b>Nominal Delay</b>	
Delay	4.2653ns/m
<b>Nom. Conductor DC Resistance</b>	
DCR @ 20°C	44.50Ω/km
<b>Nominal Outer Shield DC Resistance</b>	
DCR @ 20°C	8.5306Ω/km
<b>Max. Operating Voltage - Non-UL</b>	
Voltage	300 V RMS

# ODRG5973F

## RG59 22AWG 75Ω Stranded Coaxial Cable

### Description

- RG59 22AWG 75Ω stranded coaxial cable
- 22 AWG stranded (7x30) .030" bare copper conductor
- Foam polyethylene insulation
- Bare copper braid shield (95% coverage)
- PVC jacket



### Applications

- Uses for indoor environment which is required more flexibility applications

### Physical Characteristics (Overall)

Inner Conductor	Bare Copper Covered Steel
AWG	22
Conductor Diameter	0.762mm
Stranding	7x30
Insulation	Foam Polyethylene
Insulation Diameter	3.7084mm
Outer Shield	Braid Bare Copper
Coverage	95%
Outer Jacket	PVC - Polyvinyl Chloride
Outer Jacket Color	Red
Overall Cable	
Overall Nom. Diameter	6.121mm

### Mechanical Characteristics (Overall)

Operating Temperature Range	-30°C ~ +60°C
Non-UL Temperature Rating	60°C
Bulk Cable Weight	49.111 Kg/Km
Max. Recommended Pulling Tension	289.133 N
Min. Bend Radius/Minor Axis	63.500 mm
Suitability	Indoor
Plenum (Y/N)	N

### Electrical Characteristics (Overall)

<b>Nom. Characteristic Impedance</b>	
Impedance	75Ω
<b>Nom. Inductance</b>	
Inductance	0.29529μH/m
<b>Nom. Capacitance Conductor to Shield</b>	
Capacitance	56.7613pF/m
<b>Nominal Velocity of Propagation</b>	
VP	78%
<b>Nominal Delay</b>	
Delay	4.2653ns/m
<b>Nom. Conductor DC Resistance</b>	
DCR @ 20°C	49.215Ω/km
<b>Nominal Outer Shield DC Resistance</b>	
DCR @ 20°C	8.5306Ω/km
<b>Max. Operating Voltage - Non-UL</b>	
Voltage	300 V RMS
<b>Nom. Attenuation</b>	
<b>Frequency (MHz)</b>	<b>Attenuation (dB/100m)</b>
1	0.9843
10	2.9529
50	6.8901
100	9.8430
200	14.7645
400	21.6546
700	29.2009
900	33.1381
1000	35.7629

# ODRG6102

## RG6 18AWG 75Ω Coaxial Cable

### Description

- RG6 18AWG 75Ω coaxial cable
- 18AWG 1.02mm bare copper covered still conductor
- Foam polyethylene insulation
- Foil & aluminium braid shield
- PVC jacket

### Applications

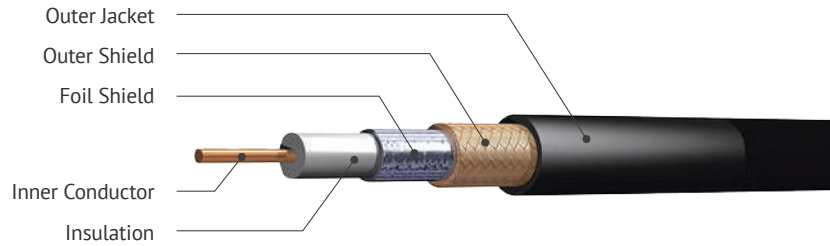
- Used for closed-circuit television, satellite television and cable modems.

### Physical Characteristics (Overall)

Inner Conductor	Bare Copper Covered Steel
AWG	18
Conductor Diameter	1.02mm
Stranding	Solid
Insulation	Foam Polyethylene
Insulation Diameter	4.57mm
Outer Shield	Aluminium braid
Coverage	90%
Foil Shield	Aluminium Foil
Outer Jacket	PVC - Polyvinyl Chloride
Overall Cable	
Overall Nom. Diameter	6.90mm

### Mechanical Characteristics (Overall)

Operating Temperature Range	-30°C ~ +60°C
Non-UL Temperature Rating	60°C
Bulk Cable Weight	47.1 Kg/Km
Max. Recommended Pulling Tension	283 N
Min. Bend Radius/Minor Axis	69.34 mm
Suitability	Indoor
Plenum (Y/N)	N



### Electrical Characteristics (Overall)

<b>Nom. Characteristic Impedance</b>	
Impedance	75Ω
<b>Nom. Inductance</b>	
Inductance	0.29529μH/m
<b>Nom. Capacitance Conductor to Shield</b>	
Capacitance	53.2pF/m
<b>Nominal Velocity of Propagation</b>	
VP	82%
<b>Nominal Delay</b>	
Delay	4.2653ns/m
<b>Nom. Conductor DC Resistance</b>	
DCR @ 20°C	44.2150Ω/km
<b>Nominal Outer Shield DC Resistance</b>	
DCR @ 20°C	8.5306Ω/km
<b>Max. Operating Voltage - Non-UL</b>	
Voltage	300 V RMS

# ODRG6102PE

## RG6 18AWG 75Ω Outdoor Coaxial Cable

### Description

- RG6 18AWG 75Ω Coaxial Cable
- 18AWG 1.016mm solid bare copper conductor
- Foam high density polyethylene insulation
- Foil & aluminium braid shield (95% coverage)
- PE jacket

### Applications

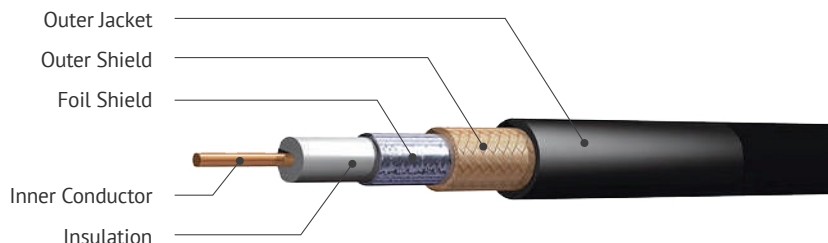
- Uses for high frequency MATV or HD video signal applications

### Physical Characteristics (Overall)

Inner Conductor	Bare Copper Covered Steel
AWG	18
Conductor Diameter	1.016mm
Stranding	Solid
Insulation	Hi-Density Polyethylene
Insulation Diameter	4.572mm
Outer Shield	Aluminium
Coverage	95%
Foil Shield	Aluminium Foil
Outer Jacket	PVC - Polyvinyl Chloride
Overall Cable	
Overall Nom. Diameter	6.96mm

### Mechanical Characteristics (Overall)

Operating Temperature Range	-30°C ~ +60°C
Non-UL Temperature Rating	60°C
Bulk Cable Weight	18.60 kg/305m
Max. Recommended Pulling Tension	31.30 kg
Min. Bend Radius/Minor Axis	69.85 mm
Suitability	Indoor / Outdoor
Plenum (Y/N)	N



### Electrical Characteristics (Overall)

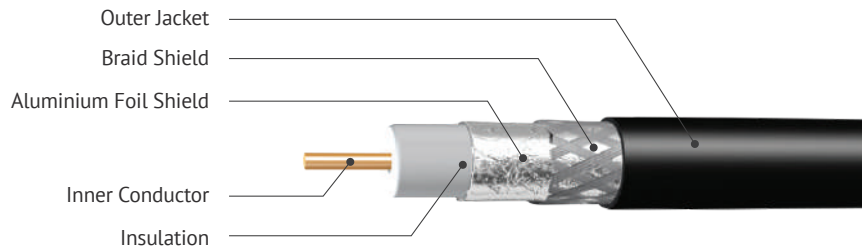
Dielectric Strength	1.0kV/min
Impedance	75Ω
SRL (dB, 0-300MHz)	>=20
Capacitance	53.1pF/m
Conductor DCR @ 20°C	<=102ohms/km
Velocity of Propagation	>=82%
Frequency (MHz)	Attenuation (dB/100ft)
5	0.58
55	1.6
211	3.05
250	3.3
400	4.15
600	5.1
750	5.65
870	6.11
1000	6.55
1300	7.46
1450	7.89
1750	8.74
2150	9.69
2600	10.76
2832	11.51
3000	11.84

# ODRG1116

## RG11 14AWG 75Ω Coaxial Cable

### Description

- RG11 14AWG 75Ω Coaxial Cable
- 14AWG 1.63mm solid bare copper conductor
- Gas-injected foam polyethylene insulation
- 100% Aluminium foil & 60% copper braid shield
- PVC jacket



### Applications

- Used for high frequency MATV or HD video signal applications

### Physical Characteristics (Overall)

Inner Conductor	Bare Copper Covered Steel
AWG	14
Conductor Diameter	1.63mm
Stranding	Solid
Insulation	Gas-injected FPE
Insulation Diameter	7.11mm
Outer Shield	Tape/Briad Copper
Coverage	60%
Foil Shield	Aluminium Foil
Outer Jacket	PVC - Polyvinyl Chloride
Outer Jacket Thickness	1.0mm
Overall Cable	
Overall Nom. Diameter	10.0mm

### Mechanical Characteristics (Overall)

Operating Temperature Range	-40°C ~ +80°C
Non-UL Temperature Rating	80°C
Bulk Cable Weight	60kg/km
Max. Recommended Pulling Tension	1200N
Min. Bend Radius/Minor Axis	115mm
Insulation Diameter	Indoor
Plenum (Y/N)	No

### Mechanical Characteristics (Overall)

Operating Temperature Range	-30°C ~ +60°C
Non-UL Temperature Rating	60°C
Bulk Cable Weight	47.1 Kg/Km
Max. Recommended Pulling Tension	283 N
Min. Bend Radius/Minor Axis	69.34 mm
Suitability	Indoor
Plenum (Y/N)	N

### Mechanical Characteristics (Overall)

Nom. Characteristics Impedance	75 Ω
Nom. Capacitance Conductor to Shield	53.1pF/m
Nom. Velocity of Propagation	83%
Nom. Delay	4.065ns/m
Nom. Conductor DC Resistance @ 20 Deg.C	36.1Ω/km
Nom. Outer Shield DC Resistance @ 20 Deg.C	25.2Ω/km
Min. Structural Return Loss (5~950 MHz)	21dB
Min. Structural Return Loss (950~3000 MHz)	18dB

# OD4702TC

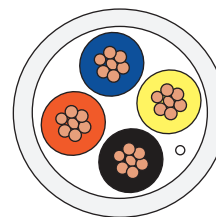
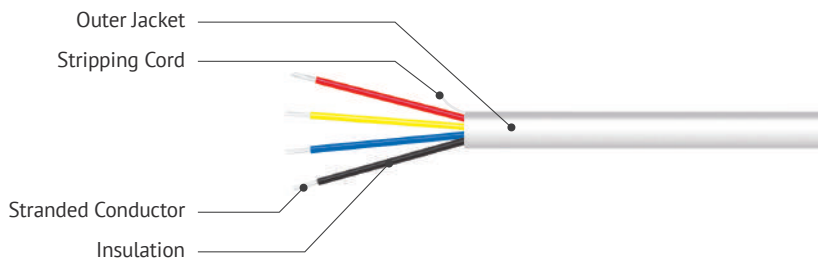
## 4 Core 7/0.2mm TC Alarm Cable

### Description

7 stranded conductors of 0.20 mm with PVC insulation and PVC sleeve in white. Good flexibility combined with robustness and strong nylon stripping cord.

### Applications

Flexible cable used for the wiring of security systems, access control, burglar alarms and other low voltage applications.



### Physical Characteristics (Overall)

Inner Conductor	Tinned Copper
AWG	24
Stranding	7x0.2mm
Insulation	HDPE
Insulation Diameter	Ø 1.0 ± 0.05mm
Insulation Thickness	0.2mm
Outer Jacket	PVC
Jacket Diameter	Ø 4.5 ± 0.2mm
Jacket Thickness	0.6mm
Sheath Color	White
Voltage Rating	50V
Temperature Rating	-10°C ~ +70°C
Identification Color	Red, Blue, Yellow, Black

### Specifications

Core Material	Tin Copper
Stranding	7 x 0.2mm
Gauge	24AWG
Insulation	HDPE, 0.2mm
Outer Sheath	Polyvinyl Chloride (PVC), 0.6mm
Sheath Color	White
Stripping	Nylon stripping cord
Max voltage	50V RMS
Current rating	1Amp
Operating Temperature	-10°C to +70°C
BS Standards	-

### Definition

4 core Tinned Copper cable are designed mainly for signal transmission of burglar alarm systems, it also widely used on security systems, access control and other low voltage applications.

### Conductor Rating

4core with 7x0.2mm stranded conductors covered by High-density polyethylene insulations.

### Construction

- PVC white sheath jacket with stripping cord & HDPE insulation covered 4 core conductors.
- 100 meters (328 feet) per roll packaging.



# ODTF2135

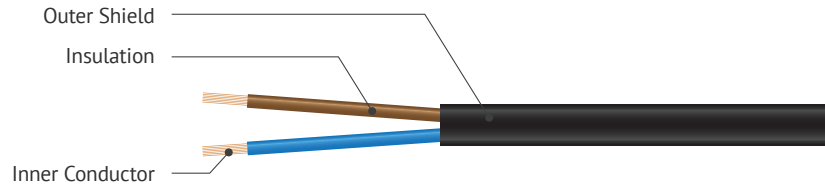
## 2C x 23/0.16 Twin Flat Power Cable

### Description

23x0.16mm bare copper inner conductors with 2 colors PVC insulation (brown and blue). The twin flat PVC black outer jacket design provides more durability and flexibility.

### Applications

2 core twin flat cable are used mainly for power and lighting circuits, both domestic and industrial applications.



### Physical Characteristics (Overall)

Inner Conductor	Bare Copper
Stranding	23x0.16mm
Insulation	PVC
Insulation Diameter	Ø 1.9 ± 0.1mm
Insulation Thickness	Foam Polyethylene
Insulation Diameter	0.5mm
Insulation Color	Brown, Blue
Outer Jacket	PVC
Jacket Diameter	3.2 ± 0.1 x 5 ± 10.2mm
Average Thickness	0.7m
Color	Black

### Physical Characteristics (Overall)

Core Material	Bare Copper
Conductor	23x0.16mm
Guage	
Insulation	PVC, 1.9 ± 0.1mm
Outer Jacket	PVC, 3.2 ± 0.1mm x 5 ± 10.2mm
Jacket Color	Black
Stripping	NA
Insulation Color	Brown, Blue
Operating Temperature	-10°C to +70°C
BS Standards	-

### Definition

Twin flats are made up of two PVC insulated conductors only, both types covered with a black PVC Sheathing. These cable are used mainly for power and lighting circuits, both domestic and industrial applications.

### Voltage Rating

300/500 Volts with a maximum operating temperature of 70°C.

### Construction

- Conductors are made up of soft annealed copper and can be stranded or solid.
- Both cores and in the presence of an earth conductor, are all covered with a black PVC sheathing.





# ODRS4224

## 24AWG Multi Conductor EIA-485 Cable

### Description

- 24AWG (7/0.2) TC conductor
- HDPE ID1.8, twisted pair
- 2 cores twisting, total 2 pairs (4 cores)
- Color: Blue/White, White/Blue
- Black PVC jacket

### Applications

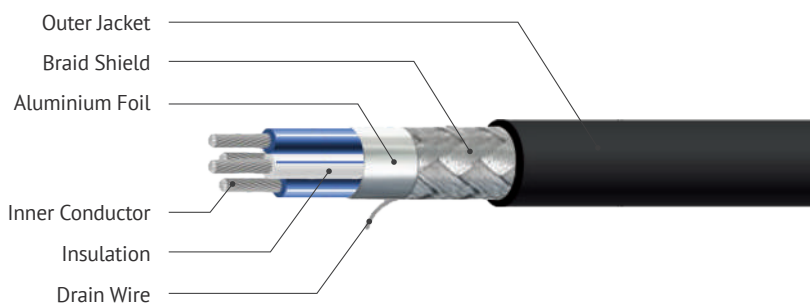
- Low capacitance Full Duplex, RS-485 High Speed Data

### Physical Characteristics (Overall)

Inner Conductor	Tinned Copper
AWG	24
Stranding	7/0.2
Core	4
Drain Wire	Tinned Copper
Insulation	HDPE ID1.8
Insulation Diameter	0.6mm
Outer Shield	Braid TC Copper
Coverage	90%
	Tape Aluminium Foil
Coverage	100%
Outer Jacket	PVC - Polyvinyl Chloride
Outer Jacket Thickness	0.8mm
Pair Color	Blue/White, White/Blue

### Mechanical Characteristics (Overall)

Operating Temperature Range	-30°C ~ +60°C
Non-UL Temperature Rating	80°C
Bulk Cable Weight	53.575kg/km
Max. Recommended Pulling Tension	321.605N
Min. Bend Radius/Minor Axis	63.500 mm
Suitability	Indoor
Plenum (Y/N)	No



### Electrical Characteristics (Overall)

<b>Nom. Characteristic Impedance</b>	
Impedance	120Ω
<b>Nom. Capacitance Conductor to Shield</b>	
Capacitance	41.9968pF/m
<b>Nominal Velocity of Propagation</b>	
VP	66%
<b>Nominal Delay</b>	
Delay	5.2496ns/m
<b>Nom. Conductor DC Resistance</b>	
DCR @ 20°C	78.744Ω/km
<b>Nominal Outer Shield DC Resistance</b>	
DCR @ 20°C	11.1554Ω/km
Min. Structural Return Loss (5-950MHz)	21.dB
Min. Structural Return Loss (950-3000MHz)	18dB
Nom. Attenuation Frequency (MHz)	1.000MHz
Nom. Attenuation (dB/100m)	1969dB/100m
Max. Operation Voltage - UL	300V RMS Type CM
	300V RMS AWM2919
Max. Recommended Current	2.1A per conductor
	25° ambient



04

## EQUIPMENT RACKS

# GPX82-10

## Large Capacity Cold-rolled Steel Distributor Frame

### Overview

GPX82-10 provides flexible cabling access, expandable frame concept, integrated cable management and a future proof modular design with the highest termination capacity possible and superior cable management. High density side access type of patch panel is also designed to fit a variety of termination, splice, and storage applications.

### Features

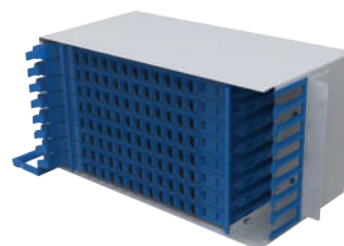
- Thickness of steel: front doors and rear panel: 1.5mm, other parts: 2.0mm
- Lock at the front door
- Enhanced visual appearance
- Highly stable and rigid construction
- Standard 19" & ETSI installations
- Designed to be used together with high density side access type patch panels
- Maximum fiber density of 2016 ports (splice & patch) and superior cable management
- Special cable glands to fix the maximum number of bundle cables on the ground
- Slot type cable guide compartments to feed the modules via miniflex tubes
- Wide range of splice, patch and cable storage options
- Bend radius protection of 35 mm throughout entire frame and all modules
- Interchangeable cassettes for various cable/tube counts and connector styles
- Accepts WDM and splitter cassettes
- Integral patch cords management

### Density Info

- 14 ODU-L21 Patch Panels in 47 U Frame
- SC/LC interfaces available
- The Frames are compliant to Telcordia Specification GR-449-core



Rack Mount Patch Panel ODU-L21



### Specifications

<b>Dimension (H*W*D)</b>	2200mm*900mm*300mm
<b>Material</b>	Cold rolled steel; Powder coated
<b>Color</b>	RAL 7035
<b>Weight</b>	120 kg / empty
<b>Maximum Port Capacity</b>	2016 Port (Splice & Patch)
<b>Maximum Subracks Allowed</b>	14*3U Patch Panel (144 Ports)
<b>Compliance</b>	GR-449-core of Telcordia Specification
<b>Temperature</b>	-5°C ~ 60°C
<b>Humidity</b>	90% at 30°C
<b>Air Pressure</b>	70kPa ~ 106kPa

## PG-WM Series

### Wall Mount Distribution Frame

#### Features

- Variety of heights
- Reliable welded main frame
- Vented top and bottom
- Comply with 19" wall mount standard
- Front lockable door with either Perspex with frame or Perforated
- Suitable for stand alone or provided for standing installation
- Adjustable mounting rails front and back
- Colour: Fully epoxy powder coated



Front tempered glass door or fully perforated door

#### Standard Order Comprises of:

- Main frame
- Front door - Perforated with cam lock
- 2pcs Side panels
- Panel mount support - 2pcs for 6U/9U, 4pcs for 12U/15U
- 1pc 3 Gang trailing socket
- 1 Pack of M6 caged nuts & screws (20pcs)
- Earthing screw



#### Available Models

Model	Capacity (U)	Height (mm)	Weight (mm)	Depth (mm)	Packing Dimension (H*W*D)	Volume (CBM)
PG0950WM	9	467	600	500	486 x 610 x 540	0.1601
PG1250WM	12	595	600	500	619 x 610 x 540	0.2039
PG1550WM	15	730	600	500	753 x 610 x 540	0.2480

\* P = Perforated door, G = Perspex with frame

\* Customized sizes available upon request

# P-WM Series

## Wall Mount Distribution Frame

### Features

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- Reliable welded main frame
- Vented top and bottom
- Comply with 19" wall mount standard
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Front tempered glass door or fully perforated door

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- 1pc 3 Gang trailing socket
- 1 Pack of M6 caged nuts & screws (20pcs)
- Earthing screw



### Available Models

Model	Capacity (U)	Height (mm)	Weight (mm)	Depth (mm)	Packing Dimension (H*W*D)	Volume (CBM)
P0440WM	4	227	600	400	255 x 615 x 415	0.0648
PG0650WM	6	335	600	500	353 x 610 x 540	0.1163

\* P = Perforated door, G = Perspex with frame

\* Customized sizes available upon request

## PG-FS Series

### Floor Stand Distribution Frame

#### Features

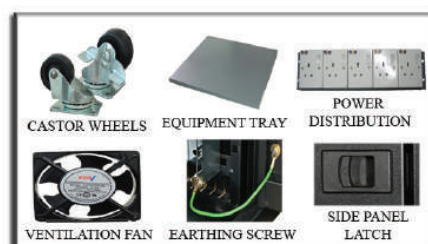
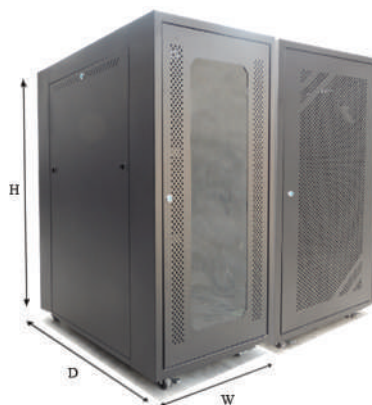
- Simple and sturdy design
- Front tempered glass door with ventilation
- Fully perforated rear door for maximising ventilation
- Easy to dismantle front / rear / side doors to enable convenient operation
- Comprehensive range of sizes available
- Colour - Fully epoxy powder coated
- Can be supplied CKD

#### Standard Order Comprises of:

- Power distribution unit: Horizontal 19" rack mountable in 1U height
- Shelves: Heavy duty shelves for equipment up to 60kg
  - Cantilever shelf - available in 2U
  - Sliding shelf
  - Vented shelf
- Cooling fan
- Leveling feet
- Cable management panel: 19" panel in 1U height to provide effective cable management
- Blank / Vented panel: Panels to cover unused space at the front of the cabinet. Available in variant sizes
- Chassis runner
- Cage net assembly



Tempered glass door or fully perforated door



#### Available Models

Model	Capacity (U)	Height (mm)	Weight (mm)	Depth (mm)	Packing Dimension (H*W*D)	Volume (CBM)
PG1580FS	15	800	600	800	835 x 612 x 812	0.4149
PG1880FS	18	930	600	800	970 x 612 x 812	0.4820
PG2480FS	24	1200	600	800	1235 x 612 x 812	0.6137
PG2880FS	28	1370	600	800	1415 x 612 x 812	0.7032
PG3380FS	33	1600	600	800	1635 x 612 x 812	0.8125
PG3780FS	37	1780	600	800	1815 x 612 x 812	0.9020
PG4280FS	42	2000	600	800	2035 x 612 x 812	1.0113
PG42100FS	42	2000	600	1000	2035 x 612 x 1012	1.2604

\* P = Perforated door, G = Perspex with frame

\* Customized sizes available upon request

# PG-TR Series

## Trunking Rack Distribution Frame

### Features

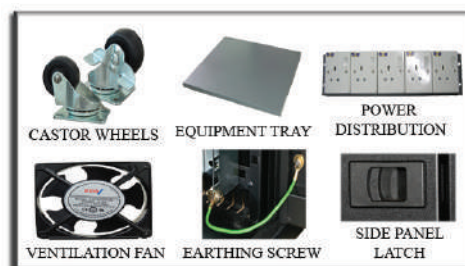
- Simple and sturdy design
- Front tempered glass door with ventilation
- Fully perforated rear door for maximising ventilation
- Easy to dismantle front / rear / side doors to enable convenient operation
- Comprehensive range of sizes available
- Colour - Fully epoxit powder coated
- Can be supplied CKD

### Standard Order Comprises of:

- Power distribution unit: Horizontal 19" rack moutable in 1U height
- Shelves: Heavy duty shelves for equipment up to 60kg
  - Cantilever shelf - available in 2U
  - Sliding shelf
  - Vented shelf
- Cooling fan
- Leveling feet
- Cable management panel: 19" panel in 1U height to provide effective cable management
- Blank / Vented panel: Panels to cover unused space at the front of the cabinet. Available in variant sizes
- Chassis runner
- Cage net assembly



Tempered galsss door or fully perforated door



### Available Models

Model	Capacity (U)	Height (mm)	Weight (mm)	Depth (mm)	Packing Dimension (H*W*D)	Volume (CBM)
PG4280TR	15	800	600	800	2035 x 612 x 800	1.3418
PG42100FS	18	930	600	800	2035 x 612 x 1012	1.6722

\* P = Perforated door, G = Perspex with frame

\* Customized sizes available upon request

# MULTIMEDIA SPECIALS & STRUCTURED CABLING SOLUTIONS

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