WEST PENN
WIRE
AV, SECURITY & NETWORKING SOLUTIONS
Since 1971

IP Security Products

Ethernet Switches
Media Converters
Category Cabling

Category Cabling Accessories
Fiber Optic Cabling
Fiber Optic Accessories

IP Video Systems

IP-Surveillance systems are relatively new to the market. In a typical IP- based video surveillance system, network (IP) cameras are connected directly to the Local Area Network (LAN) and transport digital video across the IP network via UTP cabling and switches, recording video to any PC or server on the network. Since the cameras are IP addressable, they are able to be accessed from anywhere in the world, provided the user has the sufficient network access and security privileges.

Benefits of Using Fiber Optics in Video Security and Surveillance

In the ever increasing reach of today's video security and surveillance systems, many security professionals are finding that the quality, bandwidth and distance needed to perform even the most basic surveillance is beyond the reach of coaxial and UTP cabling. In fact, even though IP-based video security systems are gaining popularity, they face a serious distance limitation of 100 meters (328 feet) or less over UTP cabling infrastructure. This poses an insurmountable hurdle when trying to monitor the many outreach locations of a typical surveillance installation. While fairing slightly better in copper distance limitations, most analog-based CCTV systems prove effective and economical only if the coaxial cabling runs are held to less than 750ft (228m). Utilizing coax beyond that distance, however, poses a number of problems, some of which are not immediately obvious.
For instance, let's say your monitor is located 1,000 ft (304 m) from the camera. In that scenario, without any active signal conditioning, approximately 37-percent of the high frequency information will be lost in transmission, providing a seriously degraded image. In fact, since you cannot see information that is not there, you may not even realize that information has been deleted. To accommodate lengths greater than 750 feet (228 m) on a coax infrastructure, you must make certain that some provision has been made to guarantee the video signal's transmission strength such as the use of signal amplification, ground fault correction and surge protection. Installing these items will inevitably increase the cost of the system considerably, making alternative cabling methods more attractive.
In fact, the use of fiber optic cable will allow for cable runs of over 1500 meters (5,000 feet) on multimode and distances of over 10km (6.2 miles) on single mode cable. In addition to distance extension, fiber optics also presents a number of other unique benefits not present in either coax or UTP cabling:

- Smaller size and better tensile strength making it easier to install when pulling through conduit or in overhead cable trays
- High degree of security as fiber is inherently difficult to tap into or interfere with
- Immunity to electrical interference such as:
  - o Electromagnetic interference (EMI)
  - o Radio frequency interference (RFI)
  - o High voltages found in fluorescent lights, card access door strikes and outdoor lighting systems
  - o Induced voltages (ground loops) which causes picture distortion and audio interference
- Higher bandwidth
- Improved reliability and overall transmission performance.

Local area networks (LANs) very commonly deploy fiber optics as the network backbone between buildings or in vertical risers of multi-story buildings. Utilizing this infrastructure already in place would be an attractive transmission alternative to risking the distance and quality issues common to coax and UTP video systems. Accessing this fiber optic cabling can be a challenge for most video security professionals as the majority of new cameras and monitors on the market today are not available with fiber optic ports on them. In addition, most existing video security and surveillance systems were designed and installed with coax or UTP cabling. To improve the quality, bandwidth and distance of these existing systems by transporting the video on fiber optic cabling, a method is required to convert the electrical video signal over to an optical format.

IP video conversion:

• Ethernet Media Converters – powered devices that convert an IP- based video signal on UTP over to a fiber optic medium
• Power over Ethernet (PoE) Media Converters – powered devices that convert an IP-based video signal UTP over to a fiber optic medium, as well as inject the power onto the UTP necessary to power remote IP cameras.

Media converters come in a variety of form factors and sizes ranging from miniature, stand-alone devices that attach directly to a camera to managed, chassis-based devices allowing for full SNMP monitoring and management of the media converters.

In addition to providing a means for transparently connecting one type of media to another, media conversion can provide a cost-effective method *for* integrating a hybrid video security and surveillance system into one, seamless and manageable entity. Imagine the cost savings that can be realized by utilizing an existing, analog-based CCTV infrastructure, while implementing the latest technology of IP-based cameras for specialized video capture, storage or analysis as well as additional surveillance locations.

PRODUCT INDEX:

WEST PENN WIRE
AV, SECURITY & NETWORKING SOLUTIONS
Since 1971

PoE Media Converters

Fiber Optic Cable
Category Cable

16 bay Chassis with Media Converters

Ethernet Switch

Ethernet Media Converters

Ethernet Switches | Managed & Unmanaged

Our complete line of Ethernet Switches supporting installations from Enterprise businesses to small offices. Gigabit Ethernet, Fast Ethernet and Standard Ethernet requirements can be met by the wide array of solutions offered. Support of new Quality of Service and Tagged Virtual LAN protocol capabilities permit the construction of convergent networks supporting voice, data, video and still image transport simultaneously over a single structured cabling plan.

MANAGED ETHERNET SWITCHES	
065-7861	26 Port Stackable - Gigabit - 4 SFP Dual Media Ports
065-7861POE	26 Port Stackable - Gigabit - 4 SFP Dual Media Ports PoE
065-7861POE-FP	26 Port Stackable - Gigabit - 4 SFP Dual Media Ports PoE+
065-7726S	24 Port 10/100 Fast Ethernet - 2 SFP RJ-45 Ports
065-7734R	24 Port 10/100 - Redundant Power
065-777344TR	24 Port 10/100 SFP Slots + 4 10/100/1G TX Dual Media Ports with 1000Base SFP slots and Redundant P.S.
065-77344DMR	24 Port 10/100B SFP Slots + 4 10/100/1GT/TX Dual Media Ports w/1000Base SFP Slots and Redundant PS- Managed Switch
065-7734FSFPR	24 Port 100B SFP Slots + 4 10/100/1GT/TX Dual Media Ports w/10/100/1000Base SFP Slots and Redundant PS-
065-7726POE	24 Port 10/100 Managed Switch PoE - 2 SFP/RJ45 Dual Media Ports
065-7726POE-FP	24 Port 10/100 Managed Switch Full Powered PoE 2 SFP/RJ45
065-7904-WS	24 Port 10/100/1000 WebSmart Switch - 4 SFP Dual Ports

ADD: H To the end of the P.N. for Hardened Temperature Ranges: -40˚C - 85˚C

UNMANAGED ETHERNET SWITCHES	
065-7308POE-FP	8 Port 10/100 Full Power PoE Switch w/ 8 PoE Port
065-7308POEFPRM	Rack Mount Kit for 065-7308POE-FP
065-7310SC	8 Port 100BaseFX MM/SC Unmanaged Fiber Switch
065-7331A	16 Port 10/100T/TX Unmanaged Switch
065-7341A	24 Port 10/100T/TX Unmanaged Switch
065-7007A	5 Port 10/100BaseT/TX Mini Switch
065-7012A	8 Port 10/100BaseT/TX Mini Switch
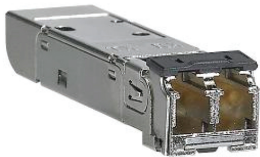
SFP SMALL FORMED FACTOR PLUGS- 2 STRAND SFP GIGABIT ETHERNET	
065-79SXMG	1000BaseSX SFP Module 850nm - MM/LC - 220m
065-79SXEDMG	1000BaseLX SFP Module 1310nm MM/LC - 2km
065-79LXMG	1000BaseLX SFP Module 1310nm SM/LC - 10km
065-79LXEDMG	1000BaseLX SFP Module 1310nm SM/LC - 40km
065-79ZXMG	1000BaseLX SFP Module 1550nm SM/LC - 80km

FAST ETHERNET AND GIGABIT COPPER SFP MODULES	
065-73TXMG	10/100BaseT/TX SFP- RJ45 100m
065-791000TMG	1000BaseT SFP - RJ45 - Cat5E or Better 100m

WEST PENN WIRE OFFERS EVERY VERSION OF ETHERNET SWITCHES FROM SIGNAMAX.

IF YOU DO NOT SEE THE PRODUCT YOU ARE SEARCHING FOR - PLEASE VISIT www.signamax.com AND CONTACT WEST PENN WIRE.

Media Converters | Managed & Unmanaged

West Penn Wire (SignaMax) provides media conversion solutions that support data, voice, video and image transport over a wide variety of transmission media. These products convert a wide variety of data - from serial RS-232 through Standard, Fast, Gigabit Ethernet and SONET/SDH protocols. Conversions from twisted-pair copper cable, coaxial cable, multimode fiber and singlemode fiber, to other types of cable are all possible with the wide array of solutions from Signamax Connectivity Systems

UNMANAGED MEDIA CONVERTER - STANDALONE OR CHASSIS MOUNT	
065-1100	10/100BaseT TX to 100BaseFX MM ST - 2Km
065-1110	10/100BaseT TX to 100BaseFX MM SC - 2Km
065-1174	10/100BaseT TX to 100BaseFX MM LC - 2Km
065-1120	10/100BaseT TX to 100BaseFX SM SC 15km
065-1100FS	10/100BaseT TX to 100BaseFX MM ST USB power option
065-1110FS	10/100BaseT TX to 100BaseFX MM SC USB power option
065-1174FS	10/100BaseT TX to 100BaseFX MM LC USB power option
065-1120FS	10/100BaseT TX to 100BaseFX SM SC 15km USB power option
065-11DINNMT	16 Bay DIN Rail Mount Brackets for 065-11xx converters
065-1196SFPDR	10/100/1G BaseT TX to 100BaseFX SFP Dual Rated 100MB or 1G Base

UNMANGED 10/100 BASET TX TO 100BASE FX MINI - STANDALONE	
065-1000	10/100BaseT TX to 100BaseFX MM ST Mini Converter MM 2km
065-1010	10/100BaseT TX to 100BaseFX MM SC Mini Converter MM 2km
065-1020	10/100BaseT TX to 100BaseFX MM SC Mini Converter SM 15km

| UNMANAGED 10/100 BASET TX TO 100BASE FX PoE - PSE Power Source Equipment	
065-1050ST	10/100BaseT/TX to 100BaseFX PoE (PSE) Media Converter ST MM 2km
065-1050SC	10/100BaseT/TX to 100BaseFX PoE (PSE) Media Converter SC MM 2km
065-1050SM	10/100BaseT/TX to 100BaseFX PoE (PSE) Media Converter SC SM 15km

UNMANAGED 10/100 BASET TX TO 100BASE FX PoE - PD Powered Device	
065-1052SC	10/100BaseT/TX to 100BaseFX PoE (PD) Media Converter STC MM 2km

ETHERNET EXTENDER MEDIA CONVERTER	
065-1167	10/100BaseT/TX Ethernet Extender Media Converter
065-1167DIN	10/100BaseT/TX Ethernet Extender Media Converter- Pre-attached DIN rail

RACK MOUNT MEDIA CONVERTER CHASSIS	
065-1185	16 Bay Rack Mount Media Converter Chassis, AC for the 065-11xx Series

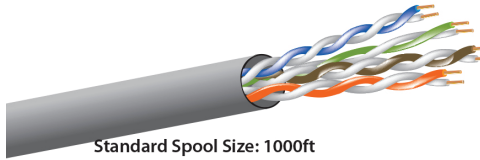| INDUSTRIAL DIN-RAIL RACK MOUNT	
065-18TR	19" DIN-rail Mount for Hardened Products
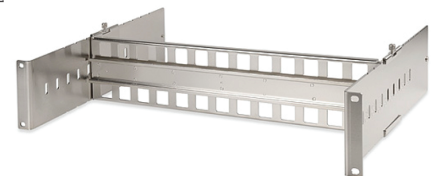
WEST PENN WIRE OFFERS EVERY VERSION OF MEDIA CONVERTERS FROM SIGNAMAX.
NOTE: NO INDUSTRIAL MEDIA CONVERTERS ARE LISTED, PLEASE CONTACT WEST PENN WIRE FOR INFORMATION ON THIS PRODUCT LINE.

IF YOU DO NOT SEE THE PRODUCT YOU ARE SEARCHING FOR - PLEASE VISIT www.signamax.com AND CONTACT WEST PENN WIRE

Bulk Cable | Category 5E UTP

Category 5E | UTP

Features:
• TIA-EIA Category 5E Cable
• NEC Type CMR and CMP
• (UL) Listed: UL1666 and NFPA262
• Meets 300V requirements as specified in the NEC

Applications:
Indoor for:
• 10/100Mb Data
• Horizontal Cabling
• Voice Backbone
• AV Digital Video
• Digital Integration

Standard Spool Size: 1000ft

Catalog No.	No. of Conductors	Cond. Type & Nom. DCR	Insulation Type & Thickness (Inches)	Shielding	Jacket Type & Thickness (Inches)	Nom. O.D (Inches)	NEC Type	Nom. Capacitance & Impedance	Jacket Colors
4245	4 Pair	24 AWG Solid 26Ω/Mft	Polyolefin	None UTP	PVC	.191	CMR	14pf/ft 100Ω	GY, BL, WH, BK, GN, OR, YE, PK, RD, VT,SGN
254245	4 Pair	24 AWG Solid 26Ω/Mft	FR Polyolefin/ FEP	None UTP	Plenum Thermo-Plastic	.205	CMP	14pf/ft 100Ω	GY, BL, WH, BK, GN, OR, YE, PK, RD, VT, SGN
M57562	4 Pair	24 AWG Solid 26Ω/Mft	Thermo-Plastic	None UTP Water-Block	UV Resistant PE	.267	Armored Outdoor	14pf/ft 100Ω	BK
4245-OSP	4 Pair	24 AWG Solid 26Ω/Mft	Thermo-Plastic	None UTP Water-Block	UV Resistant PE	.255	Outdoor	14pf/ft 100Ω	BK
4245-IO	4 Pair	24 AWG Solid 26Ω/Mft	Thermo-Plastic	None UTP Water-Block	UV Resistant Polyolefin	.251	Indoor/ Outdoor CM	14pf/ft 100Ω	BK

Primary Color Code: See Page 22
Table: A

Connectors | AV

Category 5E | UTP Modular Plugs

Catalog No.	Description
32-EZP	8 Position Cat5E EZ Plug- Bags of 50
32-599BUL	8 Position Cat5E Plug- Bags of 50
TL-EZRJ45PROCT	Crimp Tool RJ45 and RJ11
32-1900-xx	Boots - xx: WH,BK,BU,RD,GY,OR,YE,GN

32-EZP

TL-EZRJ45PROCT

Category 5E | UTP RJ45 Jacks

Catalog No.	Description
KJ458MT-C5E-XX	8 Position Cat5E RJ45 JACK - XX: WH,BK,GY,GN,OR,RD,YE
CN-705-XX	Cat5E Tool less RJ45 Jack: XX: BK,BL,GN,RD,YE,WH,OR
KRJ45/5S	Cat5E Feed Thru Adaptor
TL-110/66	Punchdown tool
TL-3650	Punchdown tool - Adjustable
KJMT-8600	Multipair Punchdown tool
TL-15015	Cat5E Stripping tool

KJ458MT-C5E-WH

TL-110/66

Cable Assemblies | AV - CAT 5E UTP

Category 5E | UTP Assemblies- Snag Proof

Catalog No.	Length	Jacket Colors
C5EC-114CC-3FB	3 Foot Cat5E	
C5EC-114CC-7FB	7 Foot Cat5E	Replace CC:
C5EC-114CC-10FB	10 Foot Cat5E	
C5EC-114CC-15FB	15 Foot Cat5E	BK, BU, GY, RD,
C5EC-114CC-20FB	20 foot Cat5E	GN, WH, YE, OR
C5EC-114CC-25FB	25 Foot Cat5E	

C5EC-114BU-XXFB

BK -BLACK	BU - BLUE	GY- GRAY	RD - RED	GN- GREEN	WH- WHITE	YE- YELLOW	OR- ORANGE

Patch Panels | LAN

Category 5E | UTP Patch Panels

Catalog No.	Description
12458MD-C5E	12 Port Cat5E Panel 1.75- 1RU
24458MD-C5E	24 Port Cat5E Panel 1.75- 1RU
48458MD-C5E	48 Port Cat5E Panel 3.50- 2RU
48458HD-C5E	48 Port Cat5E High Density: 1.75 - 1RU
12458M-C5E	12 Port Mini Panel w/ 89D Bracket
12458H-C5E	12 Port Mini Hinged Panel
CMB-250P	Panel mount Cable Mng. Bar 2.50" Deep

24458MD-C5E

Cable Management | DIN Rail Mounting

Category Cable | DIN Rail Keyston Mounting Modules

ETHERNET EXTENDER MEDIA CONVERTER	
KI-DIN-RMM-SL	Keystone Industrial DIN-Rail Mounting Module - 2 side lids
KI-DIN-RMM	Keystone Industrial DIN-Rail Mounting Module - without sides

Cable Management | LAN

Category 5E | Cable Management

HINGED WALL MOUNT BRACKETS	
Catalog No.	Description
HWB-175	1RU 1.75"H x 6" D
HWB-350	2RU 3.50"H x 6"D
HWB-525	3RU 5.25"H x 6"D
DISTRIBUTION RINGS	
CMP-175-A	Panel with (5) 1.75"x3" Rings 1RU
CMP-350-A	Panel with (5) 3"x3" Rings 2RU
CMP-175-AD	PANEL W 5 1.75"X3" RINGS 1 RMS - 1.5"Wx4"H WIRING DUCT
CMP-350-AD	PANEL W 5 3"X3" RINGS 2 RMS - 3"Wx4"H WIRING DUCT

CMP-350-A

Bulk Cable | Category 5E F/UTP

Category 5E | F/UTP
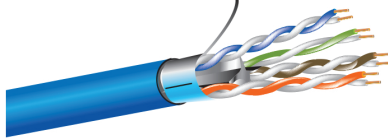
Standard Spool Size: 1000ft

Features:
- TIA-EIA Category 5E Cable
- NEC Type CMR and CMP
- (UL) Listed: UL1666 and NFPA262
- Meets 300V requirements as specified in the NEC

Applications:
Indoor for:
- 10/100Mb Data
- Horizontal Cabling
- Voice Backbone
- AV Digital Video
- Digital Integration

Catalog No.	No. of Conductors	Cond. Type & Nom. DCR	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D	NEC Type	Nom. Capacitance & Impedance	Jacket Colors
			Inches		Inches	Inches			
4245F	4 Pair	24 AWG Solid 26Ω/Mft	Polyolefin	100% Al. Foil F/UTP	PVC	.232	CMR	14pf/ft 100Ω	GY, BL
254245F	4 Pair	24 AWG Solid 26Ω/Mft	FR Polyolefin/ FEP	100% Al. Foil F/UTP	Plenum Thermo-Plastic	.218	CMP	14pf/ft 100Ω	GY, BL

Primary Color Code: See Page 22
Table: A

Cable Accessories | LAN

Category 5E | F/UTP Modular Plugs

Catalog No.	Description
CN-EZSTP-EG	8 Position Cat5E Shielded EZ Plug- Wtih External Ground
32-2098UL	8 Position Cat5E Shielded Plug
TL-EZRJ45PROCT	Crimp Tool RJ45 and RJ11
32-1900-xx	Boots - xx: WH,BK,BU,RD,GY,OR,YE,GN
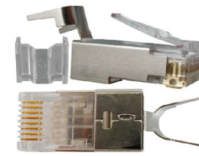
CN-EZSTP-EG

Category 5E | F/UTP RJ45 Jacks

Catalog No.	Description
KJS458TL-C5E	8 Position Cat5E Shielded RJ45 JACK - Tool less

KJS458TL-C5E

Category 5E | F/UTP Assemblies- Snag Proof

Catalog No.	Length	Jacket Colors
C5ES-314GY-3FB	3 Foot Cat5E F/UTP	Standard Color: Gray other colors are available.
C5ES-314GY-7FB	7 Foot Cat5E F/UTP	
C5ES-314GY-10FB	10 Foot Cat5E F/UTP	
C5ES-314GY-15FB	15 Foot Cat5E F/UTP	
C5ES-314GY-20FB	20 Foot Cat5E F/UTP	
C5ES-314GY-25FB	25 Foot Cat5E F/UTP	

C5ES-314GY-XXFB

Category 5E | F/UTP Patch Panels

Catalog No.	Description
24458S-C5E	24 Port Cat5E Panel 1.75- 1RU

24458S-C5E

Tools | *LAN/AV*

Category Cables | *Stripping Tools*

Catalog No.	Description
TL-15015	Category 5E Strip Tool
15010C	Category 6 and 6A Strip Tool
TL-CATWIREST	Category Cable Pair Separation Tool

TL-15015

15010C

TL-CATWIREST
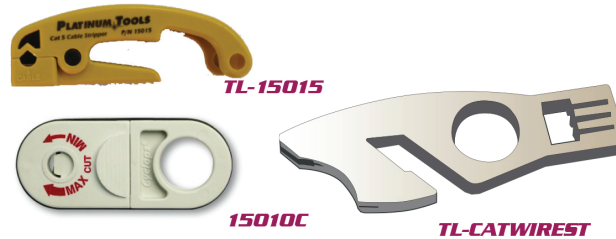
Category Cables | *Crimping Tools*

Catalog No.	Description
TL-EZRJ45PROCT	EZ Crimp Tool - Pro Style
900020	Pro-Crimp Tool for External Ground Connectors - CN-111S90H34
12515C	Crimp Tool For 106190 Cat6A Connectors
12360C	External Ground Crimp Tool - for CN-111S90H34 and 106190

900020

12515C
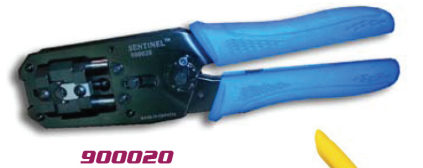
Category Cables | *Punchdown Tools*

Catalog No.	Description
TL-110/66	110 Punchdown Tool
TL-3650	110 Adjustable Punchdown Tool
KJMT-8600	Multi-Pair Punchdown Tool

TL-110/66

Category Cables | *Cable Management*

HINGED WALL MOUNT BRACKETS	
Catalog No.	Description
HWB-175	1RU 1.75"H x 6" D
HWB-350	2RU 3.50"H x 6"D
HWB-525	3RU 5.25"H x 6"D
DISTRIBUTION RINGS	
CMP-175-A	Panel with (5) 1.75"x3" Rings 1RU
CMP-350-A	Panel with (5) 3"x3" Rings 2RU
CMP-175-AD	Panel W 5 1.75"X3" RINGS 1 RMS - 1.5"Wx4"H Wiring Duct
CMP-350-AD	Panel W 5 3"X3" RINGS 2 RMS - 3"Wx4"H Wiring Duct

HWB-175
HWB-350
HWB-525

CMP-175-A

CMP-350-AD

Bulk Cable | Category 5E UTP

Category 6 | UTP

Features:
- *TIA-EIA Category 6 Cable*
- *NEC Type CMR and CMP*
- *(UL) Listed: UL1666 and NFPA262*
- *Meets 300V requirements as specified in the NEC*

Applications:
Indoor for:
- *1GBaseT, 10/100Mb Data*
- *Horizontal Cabling*
- *Voice Backbone*
- *AV Digital Video*
- *Digital Integration*

Standard Spool Size: 1000ft

Catalog No.	No. of Conductors	Cond. Type & Nom. DCR	Insulation Type & Thickness		Shielding	Jacket Type & Thickness		Nom. O.D		NEC Type	Nom. Capacitance & Impedance	Jacket Colors
			Inches			Inches		Inches				
4246	4 Pair	23 AWG Solid 24Ω/Mft	Polyolefin		None UTP	PVC		.220		CMR	14pf/ft 100Ω	GY, BL, WH, BK, GN, OR, YE, PK, RD, VT
254246	4 Pair	23 AWG Solid 24Ω/Mft	FR Polyolefin/ FEP		None UTP	Plenum Thermo-Plastic		.225		CMP	14pf/ft 100Ω	GY, BL, WH, BK, GN, OR, YE, PK, RD, VT
4246-OSP	4 Pair	23 AWG Solid 24Ω/Mft	Thermo-Plastic		None UTP Water-Block	UV Resistant PE		.266		Outdoor	14pf/ft 100Ω	BK
4246-IO	4 Pair	23 AWG Solid 24Ω/Mft	Thermo-Plastic		None UTP Water-Block	UV Resistant Polyolefin		.271		Indoor/ Outdoor CM	14pf/ft 100Ω	BK

Primary Color Code: See Page Table: A

Cable Accessories | AV

Category 6 | UTP Modular Plugs

Catalog No.	Description
32-6EZP	Cat6 UTP EZ Plug
32-6198UL	Cat6 UTP Crimp Plug with Loading Bar
TL-EZRJ45PROCT	Crimp Tool RJ45 and RJ11
32-1900-xx	Boots - xx: WH,BK,BU,RD,GY,OR,YE,GN

32-6EZP

32-6198UL

32-1900-BU

Category 6 | UTP RJ45 Jacks

Catalog No.	Description
KJ458MT-C6C-XX	8 Position Cat6 RJ45 JACK - XX: WH,BK,GY,GN,OR,RD,YE
CN-706-XX	Cat6 Tool less RJ45 Jack: XX: BK,BL,GN,RD,YE,WH,OR
KRJ45/6S	Cat6 Feed Thru Adaptor
TL-110/66	Punchdown tool
TL-3650	Punchdown tool - Adjustable
KJMT-8600	Multipair Punchdown tool
15010C	Cat6 and Cat6A Stripping tool

KJ458MT-C6C-WH

Cable Assemblies | AV - CAT 5E UTP

Category 6 | UTP Assemblies- Snag Proof

Catalog No.	Length	Jacket Colors
C6C-114CC-3FB	3 Foot Cat6	
C6C-114CC-7FB	7 Foot Cat6	Replace CC:
C6C-114CC-10FB	10 Foot Cat6	
C6C-114CC-15FB	15 Foot Cat6	BK, BU, GY, RD,
C6C-114CC-20FB	20 foot Cat6	GN, WH, YE, OR
C6C-114CC-25FB	25 Foot Cat6	

C6C-114BU-XX

| BK -BLACK | BU - BLUE | GY- GRAY | RD - RED | GN- GREEN | WH- WHITE | YE- YELLOW | OR- ORANGE |

Patch Panels | AV

Category 6 | UTP Patch Panels

Catalog No.	Description
12458MD-C6C	12 Port Cat6 Panel 1.75- 1RU
24458MD-C6C	24 Port Cat6 Panel 1.75- 1RU
48458MD-C6C	48 Port Cat6 Panel 3.50- 2RU
48458HD-C6C	48 Port Cat6 High Density: 1.75 - 1RU
12458M-C6C	12 Port Mini Panel w/ 89D Bracket Cat6
12458MH-C6C	12 Port Mini Hinged Panel Cat6
24458A-C6C	24 Port Cat6 Panel 1.75- 1RU - ANGLED
48458A-C6C	48 Port Cat6 Panel 3.50- 2RU - ANGLED
CMB-250P	Panel mount Cable Mng. Bar 2.50" Deep

24458MD-C6C

Bulk Cable | *Indoor Fiber Optic Cables*

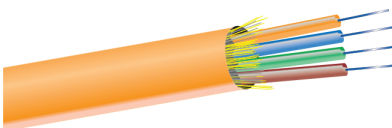## Fiber Optic | OFNR
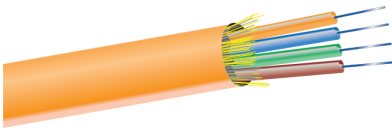
Features:
- NEC OFNR
- Available in SingleMode or MultiMode
- Distribution Design
- Corning Fiber

Applications:
Indoor for:
- Backbone Cabling
- AV and Security
- Data/Networking

Standard Spool Size: 1000ft

Catalog No.	No. of Fibers	Glass Type	Nom. OD Inches	Nom. Bend Radius Short Term	Nom. Bend Radius Long Term	Max. Load Installation	Jacket Color
M9X039	6	Replace X: A: 50/125µm OM2 B: 62.5/125µm OM1 C: 50/125µm OM3 W: 8/125µm OS2	.220	3.3 inches 8.4 cm	2.2 inches 5.6 cm	270 lbs. 1201 Newtons	Orange -OM1, OM2 Aqua - OM3 Yellow - OS2
M9X042	12	Replace X: A: 50/125µm OM2 B: 62.5/125µm OM1 C: 50/125µm OM3 W: 8/125µm OS2	.255	3.8 inches 9.6 cm	2.6 inches 6.6 cm	300 lbs. 1334 Newtons	Orange -OM1, OM2 Aqua - OM3 Yellow - OS2

Fiber Optic | OFNP

Features:
- NEC OFNP
- Available in SingleMode or MultiMode
- Distribution Design
- Corning Fiber

Applications:
Indoor for Plenum:
- Backbone Cabling
- AV and Security
- Data/Networking

Catalog No.	No. of Fibers	Glass Type	Nom. OD Inches	Nom. Bend Radius Short Term	Nom. Bend Radius Long Term	Max. Load Installation	Jacket Color
M9X043	2	Replace X: A: 50/125µm OM2 B: 62.5/125µm OM1 C: 50/125µm OM3 W: 8/125µm OS2	.184	2.8 inches 7.0 cm	1.8 inches 4.7 cm	180 lbs. 801 Newtons	Orange OM1,OM2 Aqua - OM3 Yellow - OS2
M9X045	6	Replace X: A: 50/125µm OM2 B: 62.5/125µm OM1 C: 50/125µm OM3 W: 8/125µm OS2	.200	3.0 inches 7.6 cm	2.0 inches 5.1 cm	270 lbs. 1201 Newtons	Orange -OM1,OM2 Aqua - OM3 Yellow - OS2
M9X048	12	Replace X: A: 50/125µm OM2 B: 62.5/125µm OM1 C: 50/125µm OM3 W: 8/125µm OS2	.225	3.4 inches 8.6 cm	2.3 inches 5.8 cm	300 lbs. 1334 Newtons	Orange -OM1,OM2 Aqua - OM3 Yellow - OS2

Bulk Cable | Indoor/Outdoor Fiber Optic

Fiber Optic | OFNP

Features:
- NEC OFNP
- Available in SingleMode or MultiMode
- Distribution Design
- Corning Fiber
- Indoor/Outdoor Plenum Rated
- All enviroments in ONE DESIGN

Applications:
Indoor for:
- Backbone Cabling
- AV and Security
- Data/Networking

Catalog No.	No. of Fibers	Glass Type	Nom. OD Inches	Nom. Bend Radius Short Term	Nom. Bend Radius Long Term	Max. Load Installation	Jacket Color
M9X043T	2	**Replace X:** A: 50/125μm OM2 B: 62.5/125μm OM1 C: 50/125μm OM3 W: 8/125μm OS2	.190	3.0 inches 7.6 cm	2.0 inches 5.1 cm	300 lbs. 1334 Newtons	Black ●
M9X045T	6	**Replace X:** A: 50/125μm OM2 B: 62.5/125μm OM1 C: 50/125μm OM3 W: 8/125μm OS2	.190	3.0 inches 7.6 cm	2.0 inches 5.1 cm	300 lbs. 1334 Newtons	Black ●
M9X048T	12	**Replace X:** A: 50/125μm OM2 B: 62.5/125μm OM1 C: 50/125μm OM3 W: 8/125μm OS2	.225	3.4 inches 8.6 cm	2.3 inches 5.8 cm	300 lbs. 1334 Newtons	Black ●
M9X611T	24	**Replace X:** A: 50/125μm OM2 B: 62.5/125μm OM1 C: 50/125μm OM3 W: 8/125μm OS2	.330	4.9 inches 12.4 cm	3.3 inches 8.4 cm	600 lbs. 2700 Newtons	Black ●

Individual Fiber Color Code	
1	Blue
2	Orange
3	Green
4	Brown
5	Slate
6	White
7	Red
8	Black
9	Yellow
10	Violet
11	Rose
12	Aqua

Accessories | Fiber Optics

Fiber Optic | Assemblies

ST Assemblies	
Catalog No.	**Description**
FI-**X**001-xx	Simples ST to ST
FI-**X**002-xx	Duplex ST to ST

SC Assemblies	
Catalog No.	**Description**
FI-**X**001-xxSC	Simples SC to SC
FI-**X**002-xxSC	Duplex SC to SC

ST to SC Assemblies	
Catalog No.	**Description**
FI-**X**001-xxST/SC	Simples ST to SC
FI-**X**002-xxST/SC	Duplex ST to SC

LC Assemblies	
Catalog No.	**Description**
FI-**X**001-xxLC	Simples LC to LC
FI-**X**002-xxLC	Duplex LC to LC

LC to SC Assemblies	
Catalog No.	**Description**
FI-**X**001-xxLC/SC	Simples LC to SC
FI-**X**002-xxLC/SC	Duplex LC to SC

Design and Length:
Replace X with: **Replace xx with :**
1 - 50µm OM2   3,6,10,15,30 feet.
2 - 62.5µm OM1
3 - 8µm - OS2
4- 50µm OM3

Fiber Optic | Connection Kit - Brilliance Quick Connection

BRILLIANCE FIBER KIT AND CONNECTORS	
Catalog No.	**Description**
FI-4270	Brilliance Complete Field Kit
LC CONNECTORS	
FI-4240	62.5µm OM1 LC Beige
FI4241	50µm OM2 Black
FI-4242	50µm OM3 Aqua
FI-4243	8µm OS2 Blue
SC CONNECTORS	
FI-4244	62.5µm OM1 LC Beige
FI-4245	50µm OM2 Black
FI-4246	50µm OM3 Aqua
FI-4247	8µm OS2 Blue
ST CONNECTORS	
FI-4248	62.5µm OM1 LC Beige
FI-4249	50µm OM2 Black
FI-4250	50µm OM3 Aqua
FI-4251	8µm OS2 Blue
FI-5214	2.0mm Boots for Breakout fibers

Accessories | Fiber Optics

Fiber Optic | Splices and Adaptors

Splice Tools and Spices	
Catalog No.	**Description**
3M-2501	3M Mechanical Splice
3M-2529	3M Splice
FI-8400	Universal 3M Splice Tray Enclosure
FI-SPTRME	West Penn Wire Splice Tray for Wall Mount Enclosures
Panel Mount Adaptors	
FI-8102	Adapter- ST to ST MultiMode or Single-Mode
FI-8200	Adapter- ST to ST Single-Mode
FI-8300	Adapter- SC to SC MultiMode or Single-Mode
FI-8400APC	SC Adapter- APC Polished - Green
FI-8521	FC/APC Adapter
FI-19202	SC to ST Adapter MultiMode
FI-SCLFF	LC to SC Adapter
FI-DLCFF	Duplex LC/LC Adapter

Fiber Optic | Rack Mount Enclosures

Rack Mount Enclosures	
Catalog No.	**Description**
PP-W1U1	1 RU - Accomodates - 3 Adapter Plates
PP-W2U1	2 RU - Accomodates - 6 Adapter Plates
PP-W4U1	3 RU - Accomodates - 12 Adapter Plates
FI-RM24	2 RU - Accomodates - 4 Adapter Plates
FI-RM48	3 RU - Accomodates - 8 Adapter Plates
FI-RME24STL	2 RU - Accomodates - Loaded with 24 ST
FI-RME48STL	3 RU - Accomodates - Loaded with 48 ST

Fiber Optic | WallMount Enclosures

Wall Mount Enclosures	
Catalog No.	**Description**
PP-WM1S	1 Adapter Plate - Wall Mount 7"x6"x1.5"
PP-WM2S	2 Adapter Plate - Wallmount 15.625"x13"x2.125"
PP-WM4S	4 Adapter Plate - Wallmount 15.625"x15"x3.5"
FI-WM12	2 Adapter Plate- Wallmount WPW
FI-WM24	4 Adapter Plate - Wallmount WPW
FI-WM48	8 Adapter Plate - Wallmount WPW
FI-WM100	20 Adapter Plate - Wallmount WPW

Fiber Optic | Adaptor Plates

Adapter Plates SC		Adapter Plates ST		Adapter Plates LC	
Catalog No.	**Description**	**Catalog No.**	**Description**	**Catalog No.**	**Description**
AS-WC06M	SC Simplex Multimode - 6 Fiber	AS-WT06M	ST Simplex Multimode - 6 Fiber	AS-WL12M	LC Duplex Multimode - 12 Fiber
AS-WC06G	SC Simplex 10G Multimode - 6 Fiber	AS-WT06G	ST Simplex 10G Multimode - 6 Fiber	AS-WL12G	LC Duplex 10G Multimode - 12 Fiber
AS-WC06S	SC Simplex SingleMode - 6 Fiber	AS-WT06S	ST Simplex SingleMode - 6 Fiber	AS-WL12S	LC Duplex SingleMode - 12 Fiber
AS-WC12M	SC Duplex Multimode - 12 Fiber	AS-WT12M	ST Duplex Multimode - 12 Fiber	AS-WL24M	LC Quad Multimode - 24 Fiber
AS-WC12G	SC Duplex 10G Multimode - 12 Fiber	AS-WT12G	ST Duplex 10G Multimode - 12 Fiber	AS-WL24G	LC Quad 10G Multimode - 24 Fiber
AS-WC12S	SC Duplex SingleMode - 12 Fiber	AS-WT12S	ST Duplex SingleMode - 12 Fiber	AS-WL24S	LC Quad SingleMode - 24 Fiber

WEST PENN WIRE

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