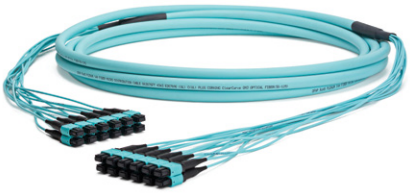
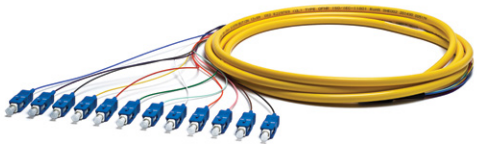
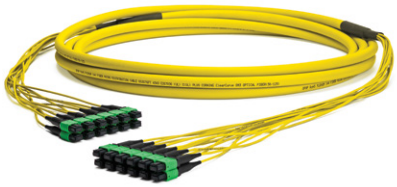
MULTI-FIBER CABLE ASSEMBLIES

PDS-0023







DESCRIPTION

Wirewerks™ offers a comprehensive line of custom-built, factory-terminated multi-fiber cable assemblies using your choice of fiber types, connectors, and assembly configurations. Each Wirewerks pre-terminated multi-fiber cable assembly is precision built to your exact mechanical and optical specifications, and then fully tested, documented, labelled and shipped for immediate installation on arrival.

Our in-house Fiber Assembly Plant, located here in North America, combines expert assembly technicians, state-of-the-art production and test equipment, and proven processes to ensure accurate, rapid production of each custom assembly. Our customer service experts are available to assist you in configuring individual assemblies, and then coordinating production scheduling of all the custom assemblies in a given project to meet your installation plan. Our expertise and proven processes put the right assembly, fully tested, on-site at the right time for on-time, on-budget installations.

All Wirewerks multi-fiber cable assemblies bring superior performance, reliability and plug-and-play simplicity to optical networks and systems. All assemblies are engineered, manufactured and tested in accordance with Telcordia, ANSI/TIA, and IEC industry standards and individually labeled with a unique serial number, custom part number, description, and connector test results.

FEATURES and BENEFITS

- 100% insertion loss (IL), return loss (RL), end face geometry tested, as well as visual inspection for contaminants
- Actual test results included with each assembly
- Interferometer test results available upon request
- Zero error performance
- Bend-insensitive fiber available
- Standard connectors MPO, LC, SC, SN, ST, FC (other connectors on request)
- Factory-installed pulling eye and connector staggering available
- Full range of cable constructions and ratings
- Installation requires no consumables, termination tool kits or specialized termination training
- No termination errors
- Stringent factory process control ensures consistent superior quality and reliability
- Factory-termination improves end-to-end attenuation, throughput and link loss budgets
- Fast, error-free installs lowers total installation cost
- Superior performance and increased reliability lowers total cost of ownership

APPLICATIONS

- Data Centers: main, horizontal, zone and equipment distribution area
- SANs
- Enterprise LANs: intra- and inter-building (Premise and Campus LANs)
- 1, 10, 40, 100 and 400 GbE applications
- PONs
- Security and transport systems
- CATV, MSO, Carrier networks

PHYSICAL SPECIFICATIONS

Parameter	Value
LC, SC, MTRJ, MPO Housing Material	UL 94 V-0 ABS high-impact thermoplastic
Connector Ferrule Material	Zirconia Ceramic
MPO Ferrule Material	Composite

MECHANICAL SPECIFICATIONS

Parameter	Value
Operating Temperature (Indoor)	0°C (32°F) ~ 70°C (158°F)
Operating Temperature (Indoor/Outdoor & Outdoor)	-40°C (-40°F) ~ 70°C (158°F)
Storage Temperature	-40°C (-40°F) ~ 60°C (140°F)

**Additional specifications available for specific cables*

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OPTICAL SPECIFICATIONS

Parameter			Value
LC, SC, CS, SN	Insertion Loss	Single Mode UPC	≤0.30 dB
		Single Mode APC	≤0.30 dB
		Multimode PC	≤0.30 dB
	Return Loss	Single Mode UPC	≤-55 dB
		Single Mode APC	≤-65 dB
MPO Low Loss	Insertion Loss	Single Mode APC	≤0.35 dB
		Multimode PC	≤0.35 dB
	Return Loss	Single Mode APC	≤-60 dB

STANDARDS COMPLIANCE

ITU-T G.652.D
Characteristics of single mode optical fiber cable – Low water peak single mode optical fiber

GR-326-CORE
Generic Requirements for Single Mode Optical Connectors and Jumper Assemblies

GR-20-CORE
Generic Requirements for Optical Fiber and Optical Fiber Cable

ANSI/TIA-568-C.3
Optical Fiber Cabling Components Standard

ANSI/TIA-598-C
Optical Fiber Cable Color Coding

TIA-604 series
Fiber Optic Connector Intermateability Standard

TIA-455 series
Standard Test Procedure for Fiber Optic Components

IEC 60874-1
Connectors for Optical Fibers and Cables – Generic Standard

UL 94
Optical Fiber Cable Color Coding

RoHS
Directive on Restriction of Hazardous Substances

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ORDERING INFORMATION

Part Number Builder
FA - A B C D EE F GGG - HH I JJ K L - NNN
NNN Assembly length in meters

A — Fiber Type

B	50/125µm multimode OM2 bend insensitive
C	50/125µm multimode OM3 bend insensitive
D	50/125µm multimode OM4 bend insensitive
E	Single mode OS2 bend insensitive

B — Cable Type

E	Spiderweb Ribbon
V	Mini Distribution w/ 2mm sub-units
D	Distribution
S	Dry Loose Tube
R	Ribbon
M	Mini Distribution w/ 3mm Sub-units
C	Unjacketed Distribution

C — Jacket Type

A	Cca Fire Rating
P	OFNP (Plenum)
R	OFNR (Riser)
Z	LSZH (Zero halogen)
O	Outdoor (OSP)
N	Indoor/ outdoor OFNP
L	Indoor/ outdoor OFNR

D — Armour Type

N	Non Armoured
B	BX Type Armour
L	Light Armour

EE — Fiber Count

02	2 fibers
04	4 fibers
06	6 fibers
08	8 fibers
12	12 fibers
18	18 fibers
24	24 fibers
36	36 fibers
48	48 fibers
72	72 fibers
96	96 fibers
C4	144 fibers

F — Lead OD

9	900 µm
1	1.2 mm
6	1.6 mm
2	2 mm
3	3 mm
Z	N/A

GGG — Lead Length

NSC	NextSTEP Optimized Breakout (color-coded)
NSD	NextSTEP Optimized Breakout (non color-coded)
XXN	Length in inches
ZZZ	N/A

HH		I		JJ		K		L	
Connector side A		**Polish side A**		**Mirror Connector Side A**		**Polish side B**		**Accessory**	
LC	LC	A	APC	LC	LC	A	APC	0	None
SC	SC	B	UPC	SC	SC	B	UPC	1	1 pulling eye
LX	LC Duplex	C	PC (multimode)	LX	LC Duplex	C	PC (multimode)	3	2 pulling eyes
SX	SC Duplex			SX	SC Duplex	D	N/A		
CS	CS			CS	CS				
SN	SN			SN	SN				
XP	12F MPO Low Loss Female Type A			XP	12F MPO Low Loss Female Type A				
XA	12F MPO Low Loss Male Type A			XA	12F MPO Low Loss Male Type A				
YP	12F MPO Low Loss Female Type B			YP	12F MPO Low Loss Female Type B				
YA	12F MPO Low Loss Male Type B			YA	12F MPO Low Loss Male Type B				
				OE	Pigtail (no connector)				

NNN Assembly length in meters
*Other types of cable construction, connector, polish and MPO wiring schemes are available upon request.

PACKAGING and SHIPPING

Description
Clear poly bag, reel, or blister pack clam shell, 1 unit per packaging