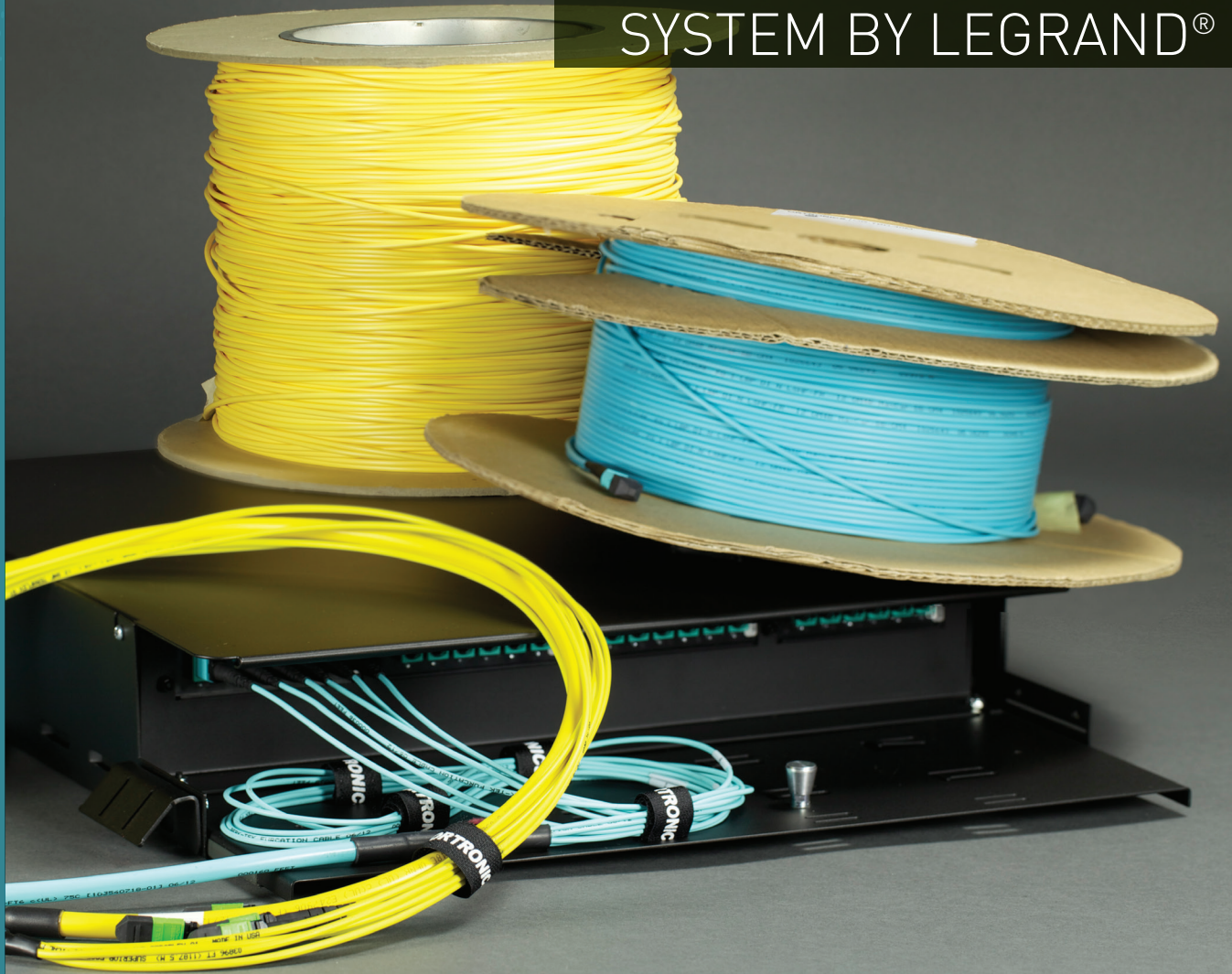


ORTRONICS®

# FIBER TRUNK CABLE

SYSTEM BY LEGRAND®



designed to be better.™



## a streamlined approach to network design

With current high bit rate transmission, advanced applications truly test the limits of optical cable design and installation. Legrand uses quality engineering in each Ortronics trunk cable to ensure performance, reliability and a successful installation. Ortronics pre-terminated trunk cables offer a streamlined approach to network design by reducing the number of individual components in the structured cabling system. The trunk cables route information to the main distribution area (MDA) and zone distribution areas and can support advanced applications – making them ideally suited to private network backbone environments.

Ortronics trunk cables are fully configurable and available with a variety of cable and connector combinations, including connector type, breakout configurations and jacket material. Each trunk can have multiple connectors of different types and a choice of cable construction in between. Trunk cables are available with today's required fiber types with MTP®, LC and SC connectors.

The resulting product has a simple design, provides unsurpassed optical performance and is less expensive to install than a multi-component system.

### RECOMMENDED APPLICATIONS

- Data Centers
- Storage Area Networks (SAN)
- Local Area Network (LAN)

### FEATURES AND BENEFITS

- Pre-terminated cable assembly cuts out costly field-termination time, reducing installation costs and eliminating cable and connector scrap
- Factory testing guarantees field-installed optical performance
- The easy to configure, wide variety of cable and connector options allow for greater flexibility in network configuration
- The pre-terminated design facilitates moves, adds and changes
- Simplicity is part of the design: the labels are right at the boot, no more tracing the cable to find the label

THE  
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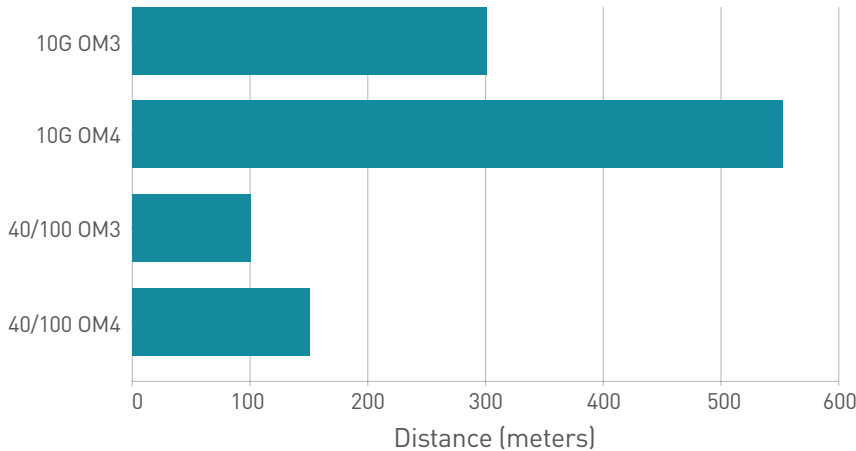
# TRUNK CABLES







## PERFORMANCE SPECIFICATIONS



## MULTIMODE FIBER TYPES AND STANDARDS

	Attenuation (4) Typical Cabled Maximum (dB/km)		Bandwidth (MHz-km)		
			Overfilled Launch (OFL)		Effective Modal Bandwidth (EMB)
	850 nm	1300 nm	850 nm	1300 nm	850 nm
OM3	3.5	1.5	1500	500	2000
OM4	3.5	1.5	3500	500	4700

## WHY USE ORTRONICS TRUNK CABLES?

### PERFORMANCE

Ortronics® trunk cables are suitable for the most advanced applications such as 16 Gb/s Fibre Channel (16GFC), 10/40/100 Gb/s Ethernet and Fibre Channel over Ethernet (FCoE).

### RELIABILITY

Robust cable assemblies, a rapid, consistent and timely delivery system, the most advanced optical fiber and an unparalleled fiber termination process produce the best product for any installation.

### SIMPLICITY

The Ortronics trunk cable offering combines expert fiber optic design with Ortronics electronically configured ordering process and rapid delivery to meet the demanding needs of today's structured cabling users.

### EASE OF INSTALLATION

Ortronics delivers trunk cables on triple flange deployment reels which offer access to all terminations and enable confirmation testing prior to installation, facilitating on-site cable deployment.



TRUNK CABLE PART MATRIX EXAMPLE PART NUMBER: [TADPLKFZAZAXXM]

T	A	B	C	D	E	F	G
	<b>Polarity</b>	<b>Cable Type</b>	<b>Jacket Material and Armor</b>	<b>Color</b>	<b>Fiber Count</b>	<b>Fiber Type</b>	<b>Breakout End A</b>
	A = Type A MTP to MTP	A = Tight Buffered Distribution	P = Plenum (OFNP)	B = Orange	F= 12	A = 62.5 (OM1)	B = 250mm (9.8") breakout onto 900um tight buffered fiber
	B = Type B MTP to MTP	C= Tight Buffered Indoor/Outdoor	R = Riser (OFNR)	H = Black	I= 24	C = 9 (OS1/OS2)	C = 250mm (9.8") breakout onto 2mm furcation tubing
	C = Type C MTP to MTP	D = Micro Array Data Center Loose Tube	B = Interlocking AL Armor Plenum	I = Yellow	K= 48	F = 50 (OM3)	D = 250mm (9.8") breakout onto 3mm furcation tubing
	L = A-A Fixed Duplex	E = Indoor/Outdoor Loose Tube	E = Interlocking AL Armor Riser	L = Aqua	M= 72	G = 50 (OM4)	E = 1m (39.4") breakout onto 900um tight buffered fiber
	M = A-B Fixed Duplex		M = Interlocking AL Armor I/O Cable		O= 96	J = 9 (OS2 - ITU G.657.A1)	F = 1m (39.4") breakout onto 2mm furcation tubing
	Z = Polarity Not Fixed						G = 1m (39.4") breakout onto 3mm furcation tubing
							M = 250mm (9.8") 900um breakout, each subsequent subunit leg, subtract 100mm (3.9")
							N = 250mm (9.8") breakout onto 2mm furcation tubing, each subsequent subunit leg, subtract 100mm (3.9")
							P = 250mm (9.8") breakout onto 3mm furcation tubing, each subsequent subunit leg, subtract 100mm (3.9")
							Q = 1m (39.4") 900um breakout, each subsequent subunit leg, subtract 100mm (3.9")
							R = 1m (39.4") breakout onto 2mm furcation tubing, each subsequent subunit leg, subtract 100mm (3.9")
							S = 1m (39.4") breakout onto 3mm furcation tubing, each subsequent subunit leg, subtract 100mm (3.9")
							Z= none or NA

DESIGN CONSIDERATIONS

The number of finished trunk cable configurations can be overwhelming due to unique network installations; variable transmission rates and multiple fiber, cable and connector choices. To meet specific requirements, Legrand has simplified the complex process of designing customized trunk cable solutions by creating a simple, but powerful cable configurator.

The configurator takes into consideration the application, fiber and connector needs, as well as packaging requirements. It is designed to take into account all the variables of fiber cable assemblies, including validation rules, ensuring selections are correct in every way. These few steps ensure that the pre-terminated trunk cable solution is tailored to the demanding needs of the installation. Legrand sales representatives and customer service personnel will guide you through the design process.

High quality design, plus high quality product, rapid response and a convenient ordering process, ensures optimal trunk cable configuration.

Y	H	Z	XXX M
Connector End A	Breakout End B	Connector End B	Length (breakout to breakout) and Pulling Eye
A = MTP (Female - Unpinned) PC polish	B = 250mm (9.8") breakout onto 900um tight buffered fiber	A = MTP (Female - Unpinned) PC polish	XXXM (in Meters) no pulling eye, Connector 1 on main spool
B = MTP (Male - Pinned) PC polish	C = 250mm (9.8") breakout onto 2mm furcation tubing	B = MTP (Male - Pinned) PC polish	XXXN (in Meters) no pulling eye, Connector 2 on main spool
C = LC (Duplex) APC	D = 250mm (9.8") breakout onto 3mm furcation tubing	C = LC (Duplex) APC	XXXQ (in Meters) pulling eye Connector 1, Connector 1 on main spool
D = LC (Duplex) UPC polish	E = 1m (39.4") breakout onto 900um tight buffered fiber	D = LC (Duplex) UPC polish	XXXP (in Meters) pulling eye Connector 2, Connector 2 on main spool
E = ST, PC polish	F = 1m (39.4") breakout onto 2mm furcation tubing	E = ST, PC polish	XXXR (in Meters) pulling eye both ends, Connector 1 on main spool
F = SC, PC polish	G = 1m (39.4") breakout onto 3mm furcation tubing	F = SC, PC polish	XXXS (in Meters) pulling eye both ends, Connector 2 on main spool
G = LC, PC polish	M = 250mm (9.8") 900um breakout, each subsequent subunit leg, subtract 100mm (3.9")	G = LC, PC polish	XXXF (in Feet) no pulling eye, Connector 1 on main spool
H = LC (Duplex) PC polish	N = 250mm (9.8") breakout onto 2mm furcation tubing, each subsequent subunit leg, subtract 100mm (3.9")	H = LC (Duplex) PC polish	XXXG (in Feet) no pulling eye, Connector 2 on main spool
I = MTP (Female - Unpinned) APC	P = 250mm (9.8") breakout onto 3mm furcation tubing, each subsequent subunit leg, subtract 100mm (3.9")	I = MTP (Female - Unpinned) APC	XXXH (in Feet) pulling eye Connector 1, Connector 1 on main spool
J = MTP (Male - Pinned) APC	Q = 1m (39.4") 900um breakout, each subsequent subunit leg, subtract 100mm (3.9")	J = MTP (Male - Pinned) APC	XXXJ (in Feet) pulling eye Connector 2, Connector 2 on main spool
L = SC (Simplex) APC	R = 1m (39.4") breakout onto 2mm furcation tubing, each subsequent subunit leg, subtract 100mm (3.9")	L = SC (Simplex) APC	XXXK (in Feet) pulling eye both ends, Connector 1 on main spool
M = LC, APC	S = 1m (39.4") breakout onto 3mm furcation tubing, each subsequent subunit leg, subtract 100mm (3.9")	M = LC, APC	XXXL (in Feet) pulling eye both ends, Connector 2 on main spool
O = Reconfigurable LC (Duplex) APC	Z= none or NA	O = Reconfigurable LC (Duplex) APC	
P = Reconfigurable LC (Duplex) UPC		P = Reconfigurable LC (Duplex) UPC	
Q = ST, UPC		Q = ST, UPC	
R = SC, UPC		R = SC, UPC	
S = LC, UPC		S = LC, UPC	
T = SC (Duplex), PC		T = SC (Duplex), PC	
U = SC (Duplex), APC		U = SC (Duplex), APC	
V = SC (Duplex), UPC		V = SC (Duplex), UPC	
W = Reconfigurable LC (Duplex), PC		W = Reconfigurable LC (Duplex), PC	
		Z = no connector	

Notes: Not all cable and connector combinations are valid. The validity will be verified during the configurator quotation process. MTP is a registered trademark of US Conec.



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