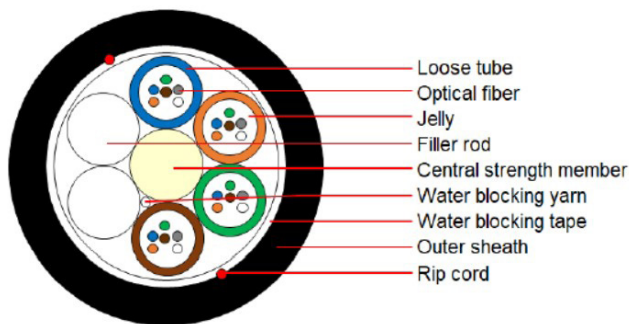


Fiber Optic Cable Heavy Duty Duct LT Internal/External PE ➤

Molex heavy duty internal/external fiber optic cable is designed for LAN backbones. The product is suitable for duct applications. The single mode fiber G.652.D fiber has been developed to reduce the water peak at the 1383nm wavelength range. Multimode OM3 and OM4 versions are also available.



FEATURES & ADVANTAGES

Suitable for indoor applications on trays and outdoor in ducts

PE sheath

Non-metallic construction

Loose tube construction

Low water peak G.652.D fiber

OM3 and OM4 suitable for systems operating at 850nm and 1300nm wavelengths

SPECIFICATIONS

Mechanical

Fiber Tube Color

No.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Gray	White
No.	7	8	9	10	11	12
Color	Red	Black	Yellow	Violet	Pink	Aqua

Physical

Characteristic					
Fiber Count	Number	Unit	6	12,24	48
Cable Structure			1+6	1+6	1+6
Fiber No. per tube	Number		4	6	12
Loose tube	Number		2	2,4	4
Outer sheath	o.d.	mm	1.6 +/- 0.1		
Cable diameter	+/- 5%	mm	9.8		10.4
Cable weight	+/- 10%	kg/km	75		78
Tensile strength	Short term	N	1500		

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SPECIFICATIONS

Electrical

Parameter		OM3	OM4
Fiber core diameter (mm)		50.0 +/- 2.5	50.0 +/- 2.5
Attenuation DB/km)	850nm	≤0.25	≤0.25
	1300nm	≤0.70	≤0.70
Macro-bend loss	850nm	Ø 15mm, < 2 turns, 0.2 dB	Ø 15mm, 2 turns, < 0.2 dB
	1300nm	Ø 15mm, < 2 turns, 0.5 dB	Ø 15mm, < 2 turns, 0.5 dB
Bandwidth	High Performance EMB* (MHz/km)	2000 at 850nm	4700 @ 850nm
	Overfilled Model Bandwidth**(MHz/km)	1500 at 850nm, 500 at 1300nm	1500 at 850nm, 500 at 1300nm
Optimized Data Rate over distance		10Gb/s over 300m	10Gb/s over 500m (link lengths require attenuation <0.3dB/km and total connector loss of <1.0dB)
Cladding diameter (µm)		125+/- 1	125+/- 1
Coating diameter (µm)		242 +/- 5	242 +/- 5
Cladding non-circularity (%)		≤1.00	≤1.00
Core-Cladding concentricity (µm)		≤1.50	≤1.50

Parameter	G.652D Singlemode	Value
Attenuation	@1310nm	≤0.35dB/km
	@1550nm	≤0.22dB/km
	@1625nm	≤0.24dB/km
Dispersion	@1288 -1339nm	≤3.0ps/ (nm-km)
	@1550nm	≤17ps/ (nm-km)
	@1625nm	≤22ps/ (nm-km)
Mode field diameter	@1310nm	9.2+/-4µm
	@1550nm	10.4+/-5µm
Micro bend loss	@1550nm	≤0.5dB/1.5dB@ 10mm radius 1 turn @ 1550/1625 nm
		≤0.5dB/1.3dB@ 15mm radius 10 turns @ 1550/1625 nm
Cladding diameter	125+/-0.7µm	
Cladding non-circularity	≤0.7%	

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ORDERING INFORMATION

Order No.	SAP No.	Description
CFR-00783	183150132	Fiber Optic Cable, 4F, Int/Ext, Singlemode OS2, G652.D, Loose Tube, PE - Black
CFR-00784	183150133	Fiber Optic Cable, 6F, Int/Ext, Singlemode OS2, G652.D, Loose Tube, PE - Black
CFR-00785	183150134	Fiber Optic Cable, 8F, Int/Ext, Singlemode OS2, G652.D, Loose Tube, PE - Black
CFR-00786	183150135	Fiber Optic Cable, 12F, Int/Ext, Singlemode OS2, G652.D, Loose Tube, PE - Black
CFR-00787	183150136	Fiber Optic Cable, 24F, Int/Ext, Singlemode OS2, G652.D, Loose Tube, PE - Black
CFR-00817	183150165	Fiber Optic Cable, 48F, Int/Ext, Singlemode OS2, G652.D, Loose Tube, PE - Black
CFR-00793	183150142	Fiber Optic Cable, 4F, Int/Ext, Multimode OM3, Loose Tube, PE - Black
CFR-00794	183150143	Fiber Optic Cable, 6F, Int/Ext, Multimode OM3, Loose Tube, PE - Black
CFR-00795	183150144	Fiber Optic Cable, 8F, Int/Ext, Multimode OM3, Loose Tube, PE - Black
CFR-00796	183150145	Fiber Optic Cable, 12F, Int/Ext, Multimode OM3, Loose Tube, PE - Black
CFR-00797	183150146	Fiber Optic Cable, 24F, Int/Ext, Multimode OM3, Loose Tube, PE - Black
CFR-00818	183150166	Fiber Optic Cable, 48F, Int/Ext, Multimode OM3, Loose Tube, PE - Black
CFR-00798	183150147	Fiber Optic Cable, 4F, Int/Ext, Multimode OM4, Loose Tube, PE - Black
CFR-00799	183150148	Fiber Optic Cable, 6F, Int/Ext, Multimode OM4, Loose Tube, PE - Black
CFR-00800	183150149	Fiber Optic Cable, 8F, Int/Ext, Multimode OM4, Loose Tube, PE - Black
CFR-00801	183150150	Fiber Optic Cable, 12F, Int/Ext, Multimode OM4, Loose Tube, PE - Black
CFR-00802	183150151	Fiber Optic Cable, 24F, Int/Ext, Multimode OM4, Loose Tube, PE - Black
CFR-00819	183150167	Fiber Optic Cable, 48F, Int/Ext, Multimode OM4, Loose Tube, PE - Black

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