

DIAMOND

Fiber Optic Components

CABLE ASSEMBLIES AND ADAPTERS

DIAMOND's FAN-OUT cabling system is an easy and secure solution to perform fiber optic installations with no need for expensive tools and equipment. The fan-out trunk cable contains fiber of the customer's choice. Each fiber is singularly fanned out, protected by a 2.1mm jacket and factory-terminated with the connectors requested by the customer. The forcation can be used as cable-end fixation and strain relief.

For delivery, DIAMOND's FAN-OUT cabling system is well protected in an especially designed packaging, which includes measuring protocols of each channel.

This solution is recommended where.... (Application area)

- ... rodent protection is required
- ... the trunk cable is longer than 80m
- ... preterminated cabling systems are preferred
- ... you want to save the costs for splicing and measuring equipment
- ... a manufacturer warranty is desired

FEATURES AND BENEFITS

- ▶ Customer-specific cable length available
- ▶ Fiber types: MM 50 μm , MM 62.5 μm and SM 9 μm
- ▶ Available in a wide assortment of connector styles including: E-2000™, F-3000™, FC, SC, ST™, MT-RJ,
- ▶ Armored Cable with Pulling-eye (optional)
- ▶ Color coding for channel identification
- ▶ Forcation made of aluminium
- ▶ Supplied as air ring or on reel
- ▶ Attenuations test report included

SPECIFICATIONS

Connector:	according to IEE and ITU Standards
Forcation Housing:	Aluminium
Forcation Dimension:	- 12 Fiber L 67 mm, Ext. \varnothing 20 mm - 24 Fiber L 67 mm, Ext. \varnothing 25 mm - 48 Fiber L 68 mm, Ext. \varnothing 32 mm
Cord Length:	from 0.5m to 10m available
Cord identification:	according color code DIN/IEC 304 or TIA-598-C
Cord protection:	armoring with Pulling-eye

CABLE TYPE	SM 9 μm	MM 50 μm	MM 62.5 μm	FORCATION	UNITS
max Insertion Loss (IL)	0.36 (1310nm) 0.25 (1550nm)	2.7 (850nm) 0.7 (1300nm)	3.0 (850nm) 0.7 (1300nm)	0.1 (dB)	dB/km

Fan-Out

SINGLE MODE PC/APC
MULTIMODE PC



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Specifications subject to change
without notice

BDD 1900471_03_12

CABLE SPECIFICATIONS

CABLE	INDOOR AND OUTDOOR				OUTDOOR				TEST CONDITIONS
	12	24	36	48	12	24	36	48	
Number of Fibers	12	24	36	48	12	24	36	48	
Diameter of Cable	7.6	9.5	11.4	11.4	8.5	9.0	12.0	12.0	
Tensile Load	1000	1000	6000	6000	2500	2500	9000	9000	EN 60764-1-2E1
Bend Radius	115	140	175	175	130	135	180	180	EN 60764-1-2E11
Crush Resistance	200	200	300	300	600	600	300	300	EN 60764-1-2E3
Operating temperature in °C *	-25 +60				-40 +60				
Storage temperature in °C *	-25 +70				-40 +70				
Material	FR / LSOH				HDPE				

* May be further limited by cable specifications.

NOTE Please refer to the connector datasheets for performance specifications.

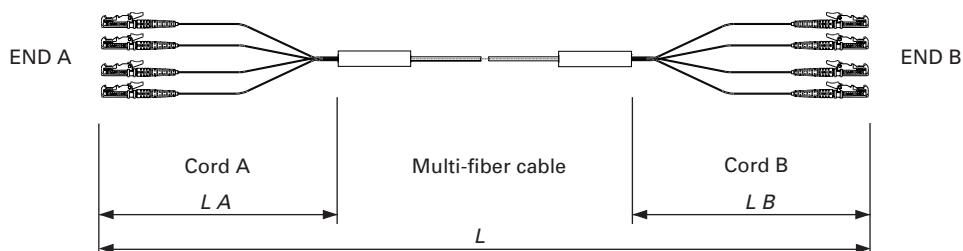


Armoring with pulling-eye



Connectors protection

ORDER INFORMATION



END A		Multi-fiber Cable		END B* <input type="checkbox"/> No. Assembly	
Connector type	Cord	Cable	Fibers	Connector type	Cord
Conn. count ____ max. 48 Pcs. <input type="checkbox"/> E-2000™ <input type="checkbox"/> F-3000™ <input type="checkbox"/> FC <input type="checkbox"/> SC <input type="checkbox"/> ST <input type="checkbox"/> MT-RJ male <input type="checkbox"/> MT-RJ female <input type="checkbox"/> ____	Length <i>L A</i> _____ min. 0.5 m max. 3 m Staggering (40 mm) <input type="checkbox"/> Yes (Standard) <input type="checkbox"/> No	Cable type <input type="checkbox"/> Indoor and outdoor <input type="checkbox"/> Outdoor <input type="checkbox"/> ____	Fiber type <input type="checkbox"/> SM 9/125µm <input type="checkbox"/> MM 50/125µm <input type="checkbox"/> MM 50/125µm OM3 <input type="checkbox"/> MM 50/125µm OM4 <input type="checkbox"/> MM 62.5/125µm <input type="checkbox"/> ____ Fiber count <input type="checkbox"/> 2 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8 <input type="checkbox"/> 12 <input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> ____	Conn. count ____ max. 48 Pcs. <input type="checkbox"/> E-2000™ <input type="checkbox"/> F-3000™ <input type="checkbox"/> FC <input type="checkbox"/> SC <input type="checkbox"/> ST <input type="checkbox"/> MT-RJ male <input type="checkbox"/> MT-RJ female <input type="checkbox"/> ____	Length <i>L B</i> _____ min. 0.5 m max. 3 m Staggering (40 mm) <input type="checkbox"/> Yes (Standard) <input type="checkbox"/> No
<input type="checkbox"/> 0° PC <input type="checkbox"/> 8° APC <input type="checkbox"/> Duplex E-2000™, F-3000™, SC only	Cord Protection A <input type="checkbox"/> Connector <input type="checkbox"/> Pulling-eye <input type="checkbox"/> No protection	Cable length <i>L</i> _____ m <input type="checkbox"/> Delivered as air ring (Standard max. 100m) <input type="checkbox"/> Delivered on reel (Standard min. 100m)		<input type="checkbox"/> 0° PC <input type="checkbox"/> 8° APC <input type="checkbox"/> Duplex E-2000™, F-3000™, SC only	Cord Protection B <input type="checkbox"/> Connector <input type="checkbox"/> Pulling-eye <input type="checkbox"/> No Protection
Cord Identification A**				Cord Identifications B**	
Color code according to: <input type="checkbox"/> DIN/IEC 304 <input type="checkbox"/> TIA-598-C <input type="checkbox"/> Single connector numbered				Color code according: <input type="checkbox"/> DIN/IEC 304 TIA-598-C <input type="checkbox"/> Single connector numbered	

* Leave section B blank if one side of the assembly will be unterminated.

** Color coding and numbering combinations available upon request.