

DIAMOND

Fiber Optic Components

Fan-Out

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 metal (cable retention 700 N)
- ▶ Supplied as air ring or on reel
- ▶ Attenuations test report included

SPECIFICATIONS

- Connector: - according to IEEE and ITU Standards
- Forcation Housing: - Aluminium blue anodizes
- Forcation Dimension: - 4/6 fibers, outer-Ø 12mm, thread M12
 - 12 fibers, outer-Ø 20mm, thread M20
 - 24 fibers, outer-Ø 25mm, thread M25
 - 48 fibers, outer-Ø 32mm, thread M32
- Cord Length: - from 0.5m up to 3m available (other on inquiry)
- Cord identification: - according color code Swisscom/DIN/IEC/TIA Standard (int.)
 - optional with channel numbering
- Cord protection: - optional with protection for connectors or pullin-eye
- Available fibers: - MM 50µm or MM 62.5µm
 - MM 50µm OM3
 - SM 9µm G.652, G.652c, G.652.d, G.652e
 - SM 9µm G.655

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

SINGLE MODE PC/APC
MULTIMODE PC



E-2000™ Fan-Out



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Specifications subject to change
without notice

BDD 1900471 08_20

CABLE SPECIFICATIONS

CABLE	CÂBLE FANOUT UNIVERSAL (GREEN) FOR INDOOR AND OUTDOOR					CÂBLE FANOUT UNIVERSAL (BLACK) FOR OUTDOOR				
	4/6	8/12	24 (1x24)	24 (2x12)	48 (4x12)	4/6	8/12	24 (1x24)	24 (2x12)	48 (4x12)
Number of Fibers	4/6	8/12	24 (1x24)	24 (2x12)	48 (4x12)	4/6	8/12	24 (1x24)	24 (2x12)	48 (4x12)
Diameter of Cable (mm)	7.6	7.6	8.2	9.5	11.4	8.2	8.2	8.6	12	12
Bend Radius (mm)	115	115	125	140	175	130	130	135	180	180
Tensile Load in N (dauernd)	1500	1500	3000	2800	6000	2500	2500	2500	9000	9000
Crush Resistance in N (steady)	3000	3000	3000	3000	3000	6000	6000	6000	3000	3000
Crush Resistance in N (short)	5000	5000	5000	5000	5000	10000	10000	10000	8000	8000
Storage temperature in °C ¹⁾	-25/ +60	-25/ +60	-25/ +60	-25/ +60	-25/ +60	-40/ +60	-40/ +60	-40/ +60	-40/ +60	-40/ +60
Operating temperature in °C ¹⁾	-25/ +70	-25/ +70	-25/ +70	-25/ +70	-25/ +70	-40/ +70	-40/ +70	-40/ +70	-40/ +70	-40/ +70
Material	FR/ LSOH					HDPE				



Armoring with pulling-eye

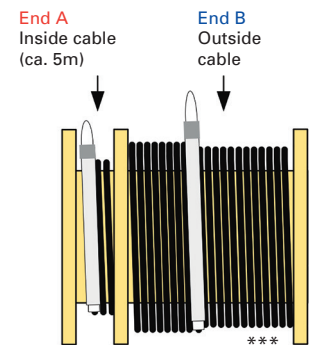
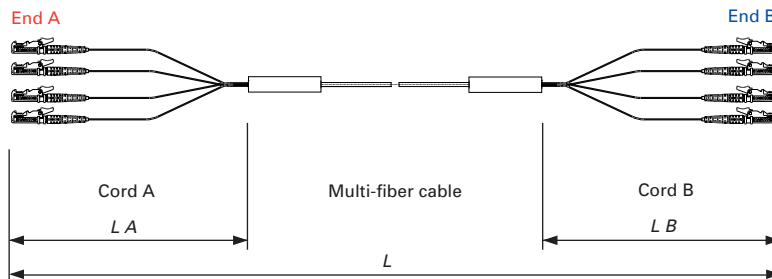


Connectors protection

¹⁾ May be further limited by cable specifications

NOTES Please refer to the connector datasheets for performance specifications.
Whips tested at an operating temperature of -10° / +85°.

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"/> F-3000® s <input type="checkbox"/> FC <input type="checkbox"/> SC <input type="checkbox"/> ST™ <input type="checkbox"/> DiaLink male <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"/> F-3000® s <input type="checkbox"/> FC <input type="checkbox"/> SC <input type="checkbox"/> ST™ <input type="checkbox"/> DiaLink male <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 Cord Protection B <input type="checkbox"/> Connector <input type="checkbox"/> Pulling-eye <input type="checkbox"/> No Protection
Cord Protection A <input type="checkbox"/> CTC <input type="checkbox"/> 0° PC <input type="checkbox"/> 8° APC <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"/> CTC <input type="checkbox"/> 0° PC <input type="checkbox"/> 8° APC	Cord Protection B <input type="checkbox"/> Connector <input type="checkbox"/> Pulling-eye <input type="checkbox"/> No Protection
Cord Identification A** Color code according to: <input type="checkbox"/> DIN/IEC 304 <input type="checkbox"/> TIA-598-C <input type="checkbox"/> Single connector numbered				Cord Identifications B ** Color code according: <input type="checkbox"/> DIN/IEC 304 <input type="checkbox"/> 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.
 *** Standard version of duplex wooden spool (size 60 x 400 x 200mm).