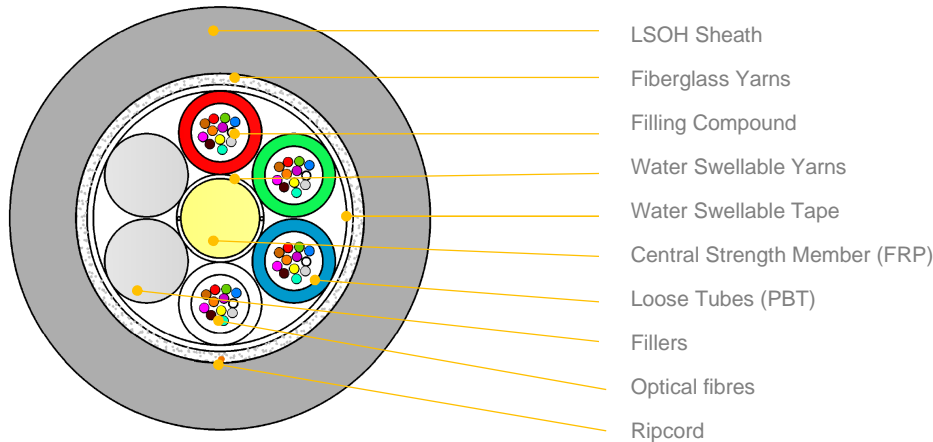


Basic Duct Cable with Multitube Structure and Glass Yarn Reinforcement BDC-CI



*schematic drawing, not to scale

APPLICATION:

For installation into existing duct
Good resistance to traction and compression
Fully dielectric cable
Basic light rodent protection

DESIGN:

FRP strength and anti-buckling element
Optical fibres
Loose tube (PBT Ø 2.0mm) with filling compound
Dry yarns and tape to prevent moisture into the cable
Fiberglass yarns as tensile elements
LSOH outer sheath
Sheath options: PE, PA etc.
Nominal outer sheath thickness 1,6mm

CABLE DESIGNS:

Variant	Quantity [pcs]				Ø nominal (±5%) [mm]	Nominal weight (±10%) [kg/km]	Max short term tensile load [N]	Max long term tensile load [N]
	Fibres	Fibres per tube	Total elements	Active tubes				
1-6T x 4F	4 - 24	4	6	1-6	10,0	91	2700	1700
1-6T x 6F	6 - 36	6	6	1-6	10,0	91	2800	1600
8T x 6F	48	6	8	8	11,2	114	2900	1800
1-6T x 12F	12 - 72	12	6	1-6	10,0	94	2700	1200
8T x 12F	96	12	8	8	11,4	116	2700	1200
12T x 12F	144	12	12	12	13,8	161	2700	1200
16T x 12F	192	12	16	16	14,2	175	2900	1400
18T x 12F	216	12	18	18	14,2	177	2900	1400
20T x 12F	240	12	24	20	16,3	224	2900	1400
24T x 12F	288	12	24	24	16,3	228	2900	1400
Other designs on demand								

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Crush performance:	2000 [N/10 cm]	IEC 60794-1-21-E3, $\Delta\alpha \leq 0,05$ dB, reversible
Bending radius:	Static: 15 x D Dynamic: 20 x D	IEC 60794-1-21-E6, $\Delta\alpha \leq 0,05$ dB, reversible
Water penetration:	3[m] sample, 1[m] head, 24[h]	IEC 60794-1-22-F5, no leakage
Temperature range		IEC 60794-1-22-F1, $\Delta\alpha \leq 0,05$ dB/km
Installation:	-5... +55 [°C]	
Operation:	-40... +70 [°C]	
Transport & Storage:	-40... +70 [°C]	

Type:	BDC-CI	REV: 1.5
Issued:	12/03/2015	PB
Modified:	08/03/2021	WW

OPTICAL FIBRE AND LOOSE TUBES COLOUR IDENTIFICATION

For optical fibres and loose tube identification information please see DSH_Colors_CODE_XXXX document.

FIBRE PARAMETERS

For selected post-production optical fibres parameters please see DSH_OFP document

MARKING

The following print (inkjet) is applied at 1-meter intervals:

- Supplier: FIBRAIN
- Standard code (Product type, fibre type, fibre count)
- Year of manufacture: xxxx
- Length marking in meters
- Cable ID / Drum No

Example: FIBRAIN BDC-CI T20 12F SM G652D 2T6F "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING" "BATCH NUMBER"

The accuracy of marking is $\pm 1\%$. Remarkings is in accordance with Bellcore GR 20 and supersedes earlier markings. Occasional loss of marking is possible. Cables can be supplied with a range of single mode or multimode fibres and customized print.

PACKING

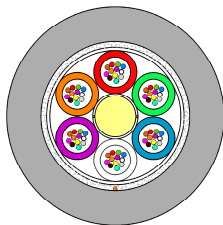
Cables will be shipped on disposable wooden or treated wooden drums. Both ends of the cable will be capped and accessible for testing. Rotation direction arrow will be marked on the drum together with identification information.

DELIVERY LENGTH

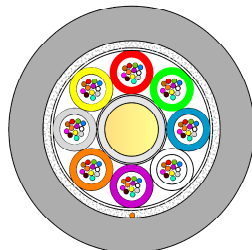
2000 – 8000 meters $\pm 5\%$, with possibility of supplying up to 5% of total contract quantity as short length cables which should be above 1000 meters long. Tolerance of 5 % of order quantity shall be allowed.

ANNEX – drawings:

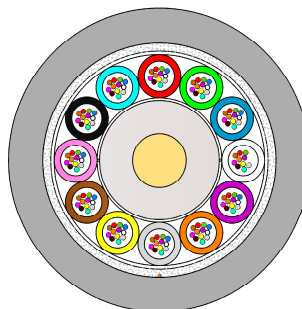
6 Elements Cable



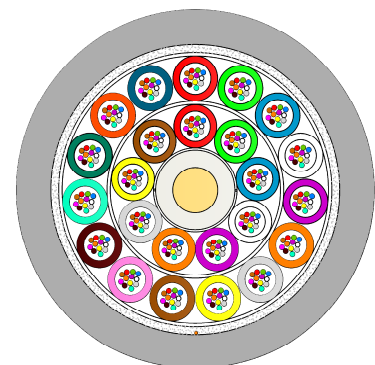
8 Elements Cable



12 Elements Cable



24 Elements Cable



*schematic drawing, not to scale

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