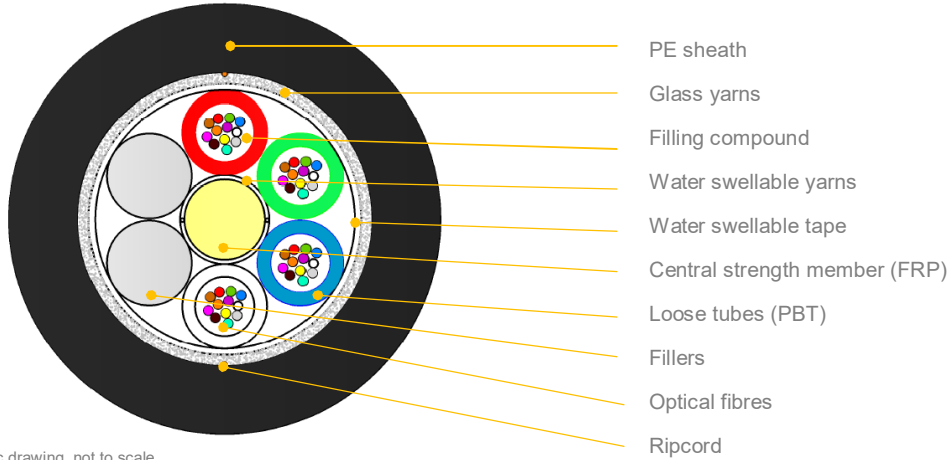


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Basic duct cable with multitube structure and glass yarn reinforcement BDC-CI



*schematic drawing, not to scale

APPLICATION:

For installation into existing duct or directly buried
Fully dielectric cable
Light rodent protection

DESIGN:

FRP strength and anti-buckling element
Dry yarns and tape to prevent moisture into the cable
Loose tube (PBT Ø 2.0mm) with filling compound
Optical fibres
Fillers (if applicable)
Water-swellable tape
Fibreglass yarns as strain relief
UV stabilized PE sheath (black by default, other colours available)
Sheath options: LSOH, 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	71	2700	1700
1-6T x 6F	6 - 36	6	6	1-6	10,0	71	2800	1600
8T x 6F	48	6	8	8	11,4	91	2900	1800
1-6T x 8F	8 - 48	8	6	1-6	10,0	74	2700	1300
1-6T x 12F	12 - 72	12	6	1-6	10,0	74	2700	1200
8T x 12F	96	12	8	8	11,4	97	2700	1200
12T x 12F	144	12	12	12	13,8	141	2700	1200
12T x 8F	96	8	12	1-12	13,8	140	2700	1400
16T x 12F (2 layers)	192	12	16	16	14,2	136	2900	1400
18T x 12F (2 layers)	216	12	18	18	14,2	147	2900	1400
24T x 12F (2 layers)	240	12	24	20	16,3	186	2900	1400
24T x 12F (2 layers)	288	12	24	24	16,3	190	2900	1400
36T x 12F (3 layers)	432	12	36	36	18,6	250	2900	1400
Other designs on demand								

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Crush performance:	2000 [N/10 cm]	IEC 60794-1-2-E3, $\Delta\alpha \leq 0,05$ dB, reversible
Bending radius:	Static: 15 x D Dynamic: 20 x D	IEC 60794-1-2-E6, $\Delta\alpha \leq 0,05$ dB, reversible
Water penetration:	3[m] sample, 1[m] head, 24[h]	IEC 60794-1-2-F5, no leakage

The information is believed to be correct at the time of issue. Fibrain reserves the right to change this specification without prior notice. This specification is not contractually valid unless specifically authorised by Fibrain. Buyer and/or user of this product has to make sure before using this product that it is suitable for the intended use. All questions of liability relating to this product are subject – in accordance with the prevailing – to the Terms of Sale of the selling Fibrain subsidiary.

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Temperature range
 Installation: -15... +55 [°C]
 Operation: -40... +70 [°C]
 Transport & Storage: -40... +70 [°C]

IEC 60794-1-2-F1, $\Delta\alpha \leq 0,05$ dB/km

OPTICAL FIBRES AND LOOSE TUBES COLOUR IDENTIFICATION

Fibres and tubes identification information see **DSH_Colors_CODE_XXXX** document.

FIBRES PARAMETERS

Optical fibres parameters see **DSH_OFP** document.

MARKING

The following print (white / hot foil) 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 $\pm 1\%$. Remarking 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

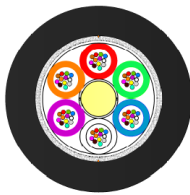
Cables will be shipped on disposable wooden or treated wooden drums. Both ends of the cable will be capped and accessible for testing. Rotation direction arrow will be marked on the drum together with identification information.

DELIVERY LENGTH

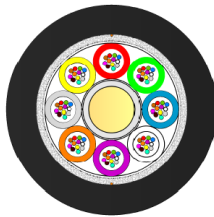
2000 – 8000 meters $\pm 5\%$, with possibility of supplying up to 5% of total contract quantity as short length cables which should be above 1000 meters long. Tolerance of 5 % of order quantity shall be allowed.

ANNEX – DRAWINGS:

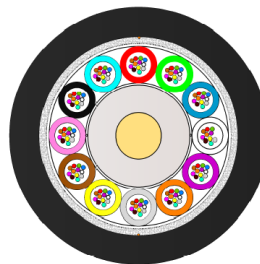
6 Elements Cable



8 Elements Cable



12 Elements Cable



24 Elements Cable



*not to scale

Important notice

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