

Basic duct cable with multitube structure and glass yarn reinforcement BDC-C0



*schematic drawing, not to scale

APPLICATION:

For installation into existing duct
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 thixotropic filing gel
Optical fibres
Fillers (if applicable)
Swellable tape preventing longitudinally penetration of water
Fibreglass yarns as strain relief
UV stabilized PE sheath
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	2100	1300
8T x 4F	32	4	8	8	11,2	91	2100	1400
1-6T x 6F	6 - 36	6	6	1-6	10,0	71	2100	1300
8T x 6F	48	6	8	8	11,2	91	2100	1300
1-6T x 12F	12-72	12	6	1-6	10,0	74	2000	1000
8T x 12F	96	12	8	8	11,3	97	2100	1000
12T x 4F	48	4	12	12	13,8	141	2400	1600
12T x 12F	144	12	12	12	13,8	141	2200	1100
16T x 12F	192	12	16	16	14,2	136	2200	1100
18T x 12F	216	12	18	18	14,2	147	2200	1100
24T x 12F	288	12	24	24	16,2	190	2500	1200
36T x 12F	432	12	36	36	17,5	250	2500	1200
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:	-15... +55 [°C]	
Operation:	-40... +70 [°C]	
Transport & Storage:	-40... +70 [°C]	

Type:	BDC-C0	REV: 4.8
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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 (white hot foil / laser printing or other suitable method) 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-C0 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.

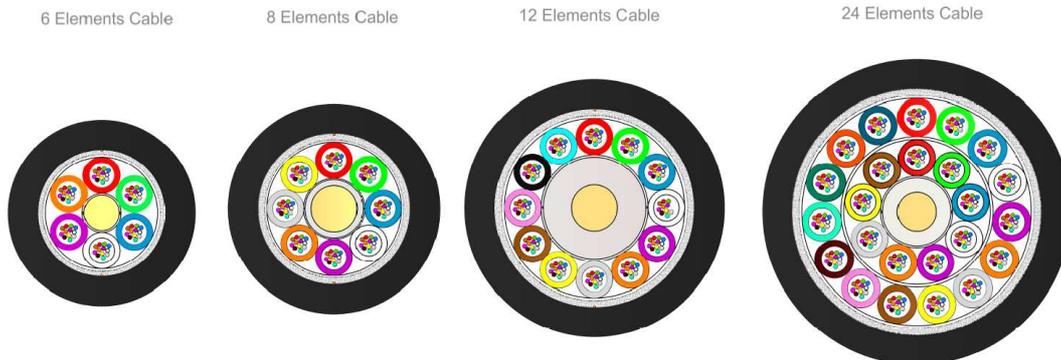
PACKING

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:



*not to scale

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