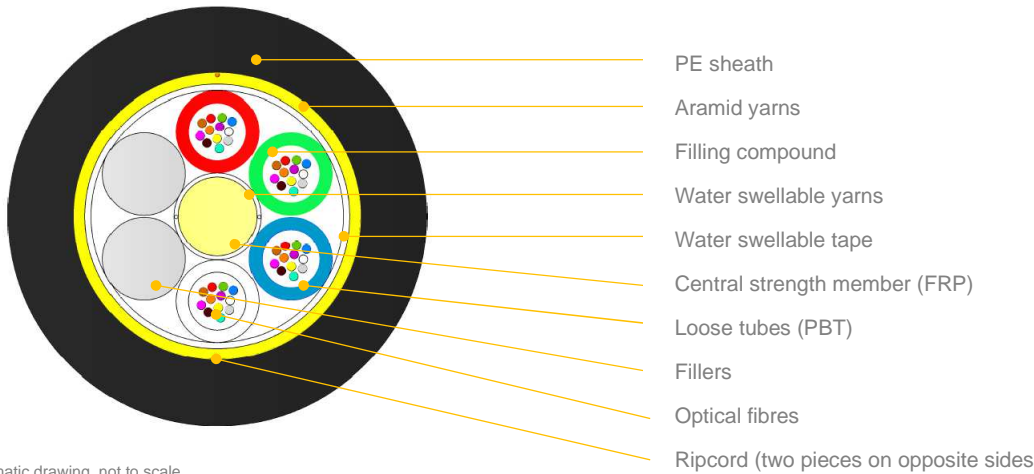


Type:	BDC-COA	REV: 4.9
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Basic duct cable with multitube structure and aramid yarns reinforcement BDC-COA



*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 filling compound
Optical fibres
Fillers (if applicable)
Water-swellable tape
Aramid 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 6F	6-36	6	6	1-6	10,0	74	2200	1300
1-6T x 12F	12-72	12	6	1-6	10,0	76	2000	1000
8T x 12F	96	12	8	8	11,3	98	2000	1000
12T x 12F	144	12	12	12	13,8	143	2100	1100
20T x 12F	240	12	24	20	16,4	198	2200	1100
24T x 12F	288	12	24	24	16,4	198	2200	1100

Other fibre counts available 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]	

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.

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MARKING

The following print (hot stamped / laser printing) 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-COA 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.

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