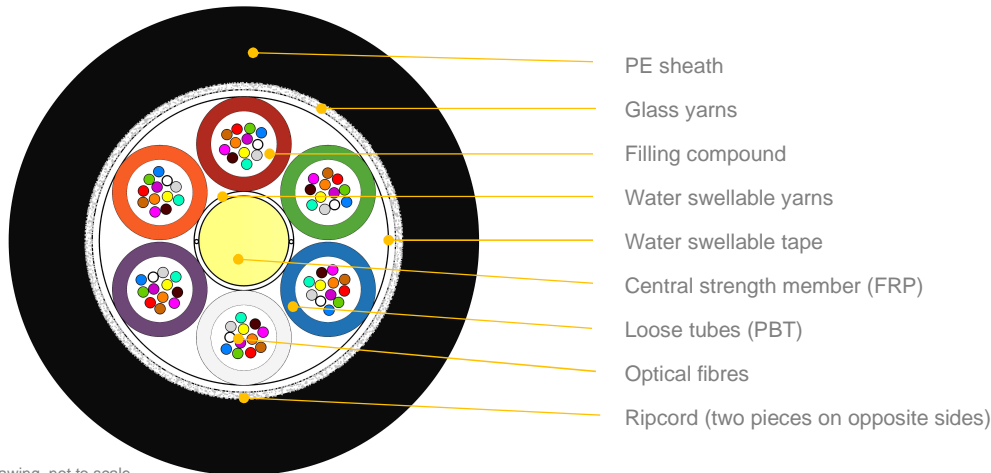


Basic duct cable with multitube structure and fiberglass yarn reinforcement BDC-DK



*schematic drawing, not to scale

APPLICATION:

For installation into existing duct
Fully dielectric cable
Basic rodent protection

DESIGN:

FRP strength and anti-buckling element
Dry yarns and tape to prevent moisture into the cable
Loose tube (PBT Ø 2.5mm) with filling compound
Optical fibres
Fillers (if applicable)
Water-swellable tape
Fibreglass yarns as strain relief
UV stabilized PE sheath
Sheath options: LSOH, PA etc.
Nominal outer sheath thickness 1,6mm

CONFIGURATIONS:

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	11,5	99	4200	2800
1-6T x 12F	12-72	12	6	1-6	11,5	100	4000	2400
8T x 6F	6-48	6	8	1-8	13,1	126	4200	2600
8T x 12F	96	12	8	8	13,1	129	4200	2600
12T x 12F	144	12	12	12	16,2	196	4200	2600
16T x 12F	192	12	18	16	17,0	198	4000	2400
18T x 12F	216	12	18	18	17,0	202	4000	2400
20T x 12F	240	12	24	20	18,4	255	4200	2600
24T x 12F	288	12	24	24	18,4	263	4200	2600
16T x 24F	384	24	18	16	17,0	210	4000	2400
18T x 24F	432	24	18	18	17,0	214	4000	2400
24T x 24F	576	24	24	24	18,4	280	4200	2600

Other designs on demand

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Crush performance:	4000 [N/10 cm]	IEC 60794-1-21-E3, $\Delta\alpha \leq 0,1$ dB (after test)
Bending radius:	Static: 13 x D Dynamic: 20 x D	IEC 60794-1-21-E11, $\Delta\alpha \leq 0,05$ dB
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-DK	REV: 1.5
Issued:	28/09/2015	PB
Modified:	22/02/2021	WW

OPTICAL FIBRES AND LOOSE TUBES COLOUR IDENTIFICATION

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

FIBRES PARAMETERS

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

MARKING

The following print (hot stamped, 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-DK T25 12F SM G652D 2T6F "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING" "BATCH NUMBER"

The accuracy of marking is $\pm 0,5\%$. 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.

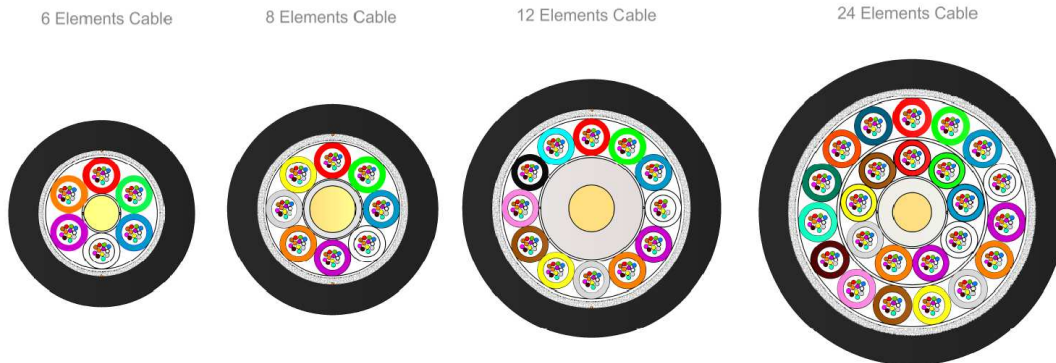
PACKING

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:



*schematic drawing, not to scale

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