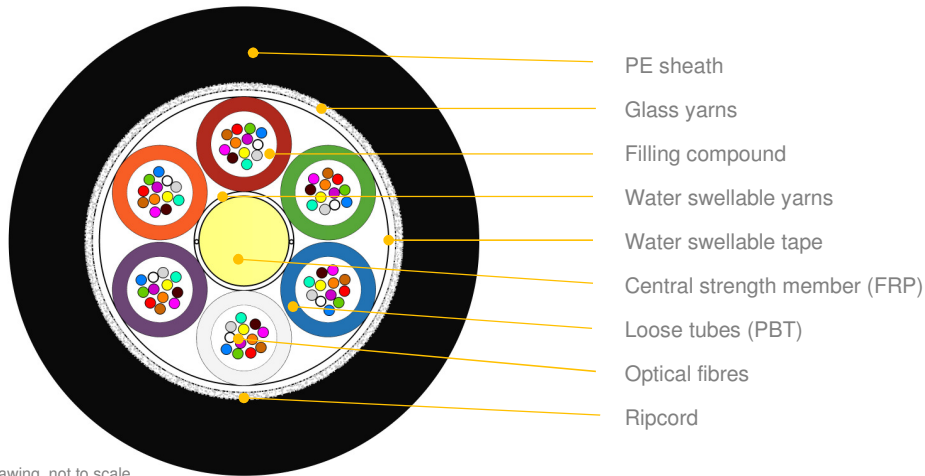


## Basic duct cable with multitube structure and fiberglass yarn reinforcement BDC-DI



\*schematic drawing, not to scale

### APPLICATION:

For installation by blowing or pulling 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-swappable tape  
Fibreglass yarns as strain relief  
UV stabilized PE sheath (nominal thickness 1,6mm)  
Sheath options: LSOH, PA etc.

### 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	98	3400	2400
1-6T x 12F	12-72	12	6	1-6	11,5	99	3000	1900
8T x 12F	96	12	8	8	13,1	126	3000	1900
12T x 12F	144	12	12	12	16,2	193	3000	1900
16T x 12F	192	12	18	16	17,0	195	3000	1900
18T x 12F	216	12	18	18	17,0	197	3000	1900
20T x 12F	240	12	24	20	18,4	252	3000	1900
24T x 12F	288	12	24	24	18,4	260	3000	1900
16T x 24F	384	24	18	16	17,0	208	3000	1500
18T x 24F	432	24	18	18	17,0	210	3000	1500
24T x 24F	576	24	24	24	18,4	265	3000	1500
36T x 12F	864	24	36	36	21,7 (-0,6mm/+1,1mm)	240	3000	1500

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, 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-DI	REV: 2.4
Issued:	28/09/2015	PB
Modified:	28/01/2021	KP

## 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 (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-DI 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.

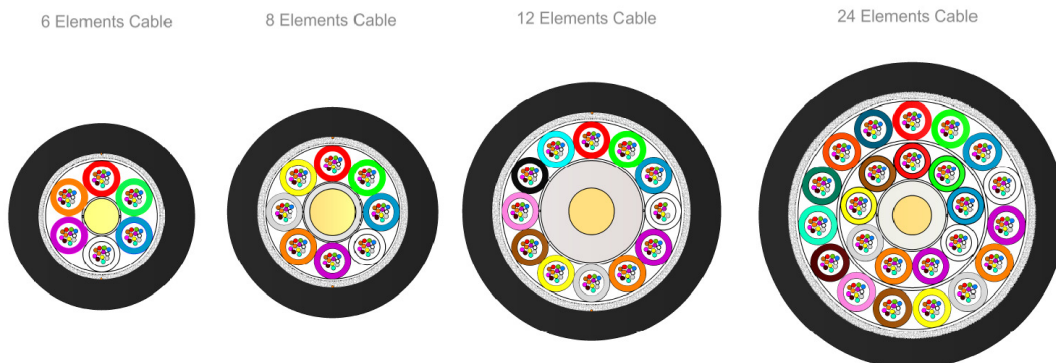
## PACKING

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  $\pm 5\%$  depending on fibre count, 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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