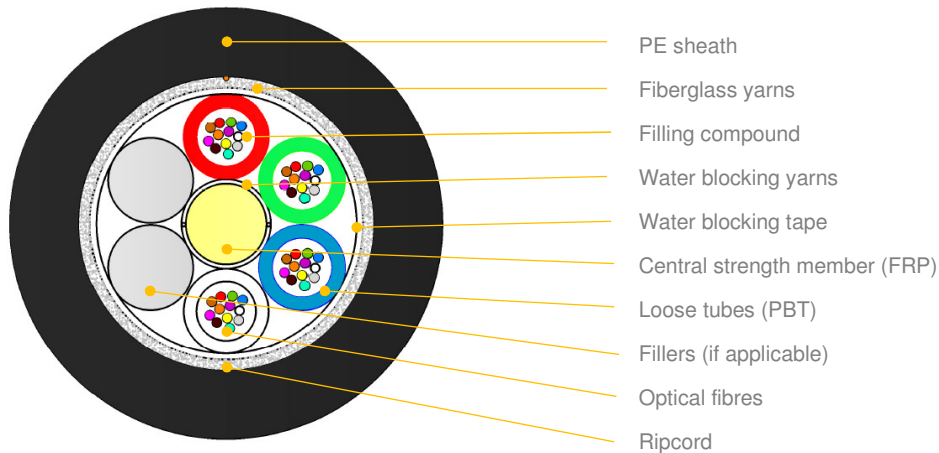


Basic duct cable with multitube structure and glass fiber reinforcement BDC MIB



*schematic drawing, not to scale

APPLICATION:

For installation into existing ducts
Fully dielectric cable
Basic rodent protection

DESIGN:

FRP strength and anti-buckling rod
Dry yarns to prevent moisture into the cable
Loose tubes (PBT Ø 1,8mm) with filling compound
Optical fibres
Fibreglass yarns as tensile elements
UV stabilized PE sheath

CABLE DESIGNS:

Variant	Quantity [pcs]				Ø nominal (±5%) [mm]	Nominal weight (±10%) [kg/km]	Max allowed tension [N]	Max static tension [N]
	Fibres	Fibres per tube	Total elements	Active tubes				
1-6T x 12F	12-72	12	6	1-6	8,8	66	2800	1000
8T x 6F	48	6	8	8	10,0	77	2800	1500
8T x 12F	96	12	8	8	10,0	82	2800	1000
12T x 12F	144	12	12	12	12,2	117	2800	1000
16-18T x 12F	192-216	12	18	16-18	12,6	122	2800	1000
20-24T x 12F	240-288	12	24	20-24	14,2	156	2800	1000

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Crush performance:	1500 [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_OFFP document.

Type:	BDC-MIB	REV: 1.3
Issued:	05/01/2014	SK
Modified:	19/02/2021	KP

MARKING

The following print (hot foil, ink jet, laser or other suitable available method depending on availability) 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-MIB T18 12F SM G652D 1T12F "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

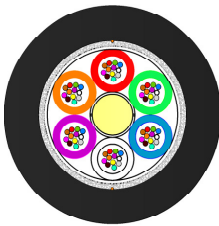
Cables will be shipped on disposable wooden or treated wooden drums. Both ends of the cable will be capped and accessible for testing. Rotation direction arrow will be marked on the drum together with identification information.

DELIVERY LENGTH

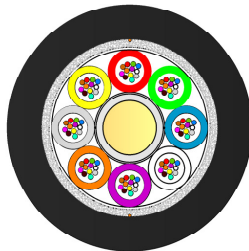
2000 – 8000 meters $\pm 5\%$, with possibility of supplying up to 5% of total contract quantity as short length cables which should be above 1000 meters long. Tolerance of 5 % of order quantity shall be allowed.

ANNEX – DRAWINGS:

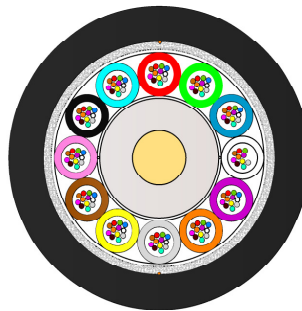
6 Elements Cable



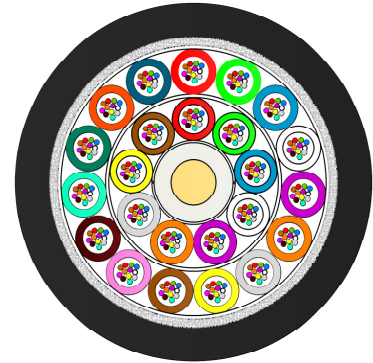
8 Elements Cable



12 Elements Cable



24 Elements Cable



*schematic drawing, not to scale

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