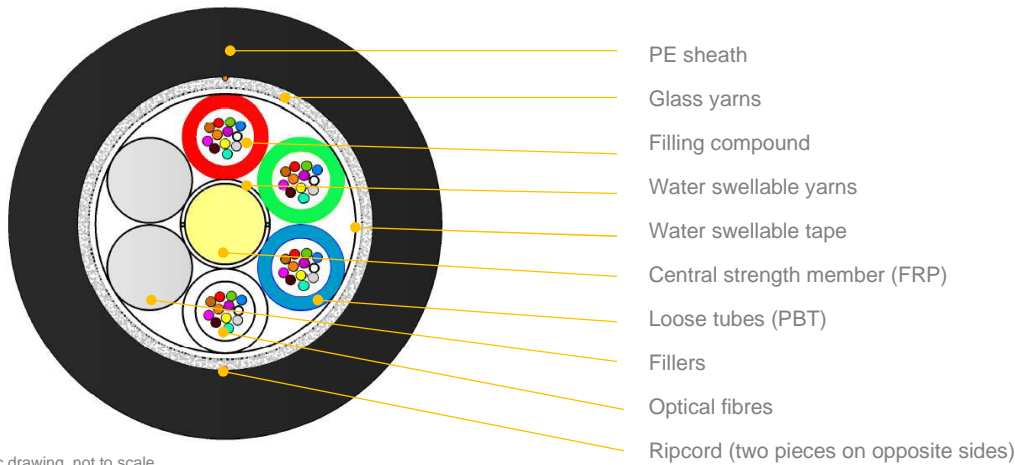


Type:	BDC-CK	REV: 1.5
Issued:	15/10/2014	SK
Modified:	15/02/2021	WW

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



*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-swappable tape
Fibreglass yarns as strain relief
UV stabilized PE sheath (black by default, other colours available)
Sheath options: LSOH, PA etc.
Nominal outer sheath thickness 1,6mm

CABLE DESIGNS:

Version	Quantity [pcs]				Ø nominal (±5%) [mm]	Nominal weight (±10%) [kg/km]	Max. tensile load short term [N]	Max. tensile load long term [N]
	Fibres	Fibres per tube	Total elements	Active tubes				
1-6T x 4F	4-24	4	6	1-6	10,1	79	4000	2400
1-6T x 6F	6-36	6	6	1-6	10,1	80	4000	2400
1-6T x 8F	8-48	8	6	1-6	10,1	81	4000	2200
1-6T x 10F	10-60	10	6	1-6	10,1	83	4000	2000
1-6T x 12F	12-72	12	6	1-6	10,2	85	4100	2000
8T x 6F	48	6	8	8	11,4	98	4100	2400
8T x 12F	96	12	8	8	11,4	106	4200	1800
12T x 12F	144	12	12	12	13,9	151	4200	2000
16T x 12F	192	12	18	16	14,1	154	4100	1900
18T x 12F	216	12	18	18	14,1	156	4100	1900
24T x 12F	288	12	24	24	15,9	197	4000	1900
32T x 12F (3 layers)	384	12	36	32	18,9	255	4000	1900
36T x 12F (3 layers)	432	12	36	36	18,9	259	4000	1900

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

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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.

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-CK 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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