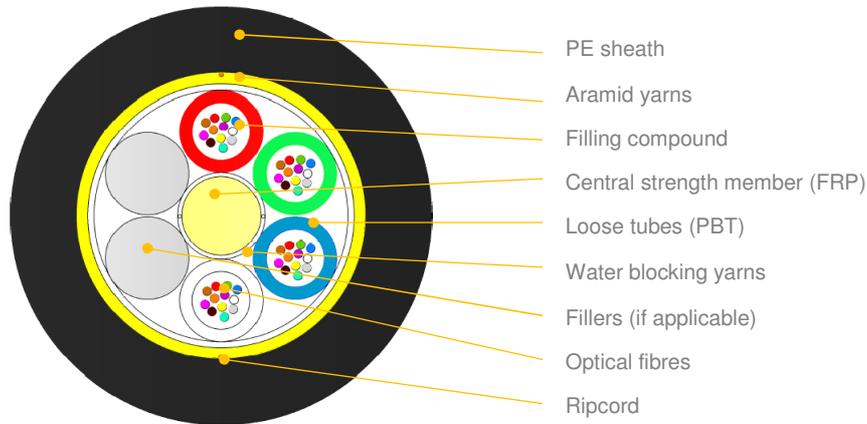


Type:	BDC-DX	REV: 3.2
Issued:	18/12/2017	PB
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Basic Duct Cable BDC-DX



*schematic drawing, not to scale

APPLICATION:

For installation into existing ducts
Fully dielectric cable

DESIGN:

FRP strength and anti-buckling element
SAP coated yarns to prevent longitudinal moisture ingress
Aramid yarns as tensile strength and strain relief
Loose tube (PBT Ø2,5mm) with filling compound
6-36 elements SZ stranded cable core
Optical fibres
Fillers (if applicable)
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				
BDC-DX 18T x 24F (6T+12T)	432	24	18	18	15,2	177	2000	1000
BDC-DX 24T x 24F (9T+15T)	576	24	24	24	17,5	237	2000	1000
BDC-DX 30T x 24F (6T+12T+(12T+6F))	720	24	36	30	20,0	324	2000	1000
BDC-DX 36T x 24F (6T+12T+18T)	864	24	36	36	20,0	330	2000	1000

Other fiber counts available on demand

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Crush performance:	2000 [N/10 cm/1min]	IEC 60794-1-21 E3, $\Delta\alpha \leq 0,05$ dB, $\Delta\alpha$ reversible
Impact performance:	5[J] / R=300[mm] / 3 points	IEC 60794-1-21 E4, $\Delta\alpha \leq 0,10$ dB, $\Delta\alpha$ reversible
Bending radius:	Static: 15 x D Dynamic: 20 x D	IEC 60794-1-21 E6, $\Delta\alpha \leq 0,05$ dB, $\Delta\alpha$ reversible
Water penetration:	3[m] sample, 1[m] head, 24[h]	IEC 60794-1-22 F5-B, no leakage
Temperature range:		IEC 60794-1-22-F1,
Installation:	-15... +55 [°C]	
Operation:	-20... +70 [°C]	$\Delta\alpha \leq 0,05$ dB/km
Transport & Storage:	-40... +70 [°C]	$\Delta\alpha$ reversible

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_OFPP document.

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MARKING

The following print (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-DX T25 432F 5M G652D 18T24F "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.

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