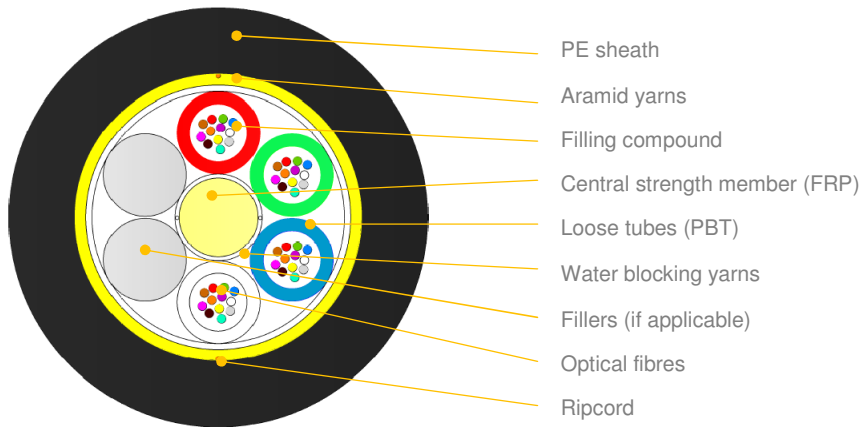


Type:	BDC-MX	REV: 2.5
Issued:	07/02/2018	AM
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Basic Duct Cable BDC-MX



*schematic drawing, not to scale

APPLICATION:

For installation in ducts.
Fully dielectric cable

DESIGN:

FRP strength and anti-buckling element
Dry yarns to prevent moisture into the cable
Loose tube (PBT Ø 1,8) with filling compound
6-24 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-MX 1-6T x 12F	12 – 72	6	6	1 – 6	7,2	38	500	250
BDC-MX 8T x 12F	96	12	8	8	8,2	50	500	250
BDC-MX 10T x 12F	120	12	12	10	10,5	81	1000	500
BDC-MX 12T x 12F	144	12	12	12	10,5	83	1000	500
BDC-MX 16T x 12F	192	12	18	16	11,3	84	1000	500
BDC-MX 18T x 12F	216	12	18	18	11,3	85	1000	500
BDC-MX 24T x 12F (9T+15T)	288	12	24	24	12,9	126	1000	500
Other fiber counts available on demand								

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Crush performance:	1000 [N/10 cm]	IEC 60794-1-21-E3, $\Delta\alpha \leq 0,05$ dB, reversible
Impact performance:	3[J] / R=300[mm] / 3 points	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]	

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OPTICAL FIBRES AND LOOSE TUBES COLOUR IDENTIFICATION

Fibre number	1	2	3	4	5	6	7	8	9	10	11	12
Fibre colour	Red	Blue	Green	Yellow	Violet	White	Orange	Grey	Brown	Black	Aqua	Pink

TUBES COLOUR CODE FOR CABLES WITH UP TO 12 TUBES

Tube number	1	2	3	4	5	6	7	8	9	10	11	12
Tube colour	Red	Blue	Green	Yellow	Violet	White	Orange	Gray	Brown	Black	Aqua	Pink

TUBES COLOUR CODE FOR CABLES WITH UP TO 24 TUBES (WITH ADDITIONAL MARKING, WHICH CAN BE CUSTOMIZED)

Tube number	1	2	3	4	5	6	7	8	9	10	11	12
Tube colour	Red	Blue	Green	Yellow	Violet	White	Orange	Gray	Brown	Light green	Aqua	Pink
Tube number	13	14	15	16	17	18	19	20	21	22	23	24
Tube colour	Red	Blue	Green	Yellow	Violet	White	Orange	Gray	Brown	Light green	Aqua	Pink

FIBRES PARAMETERS

Optical fibres parameters see **DSH_OFP** document.

MARKING

The following print (white / ink jet I) 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-MX 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.

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