

Type:	BDC-D04	REV: 2
Issued:	24/06/2019	PB
Modfied:	29/04/2021	AM
Project:	42-19	DR

Basic duct cable with multitube structure and glass yarn reinforcement BDC-D04



^{*}schematic drawing not to scale

APPLICATION:

For installation into existing duct Fully dielectric

DESIGN:

FRP strength and anti-buckling element

Water swellable yarns and tape to prevent moisture ingress into the cable core

Loose tube (PBT Ø 2.5 [mm]) with filing compound

Optical fibres (G.652.D compatible)

Fillers (if applicable)

Fibreglass yarns as strain relief and rodent protection in two layers laid in opposite

directions

Fiberglass content ≥ 5,4 [g/m] Black UV stabilized PE sheath

Minimum outer sheath thickness = 1,4 [mm]

CABLE DESIGNS:

		Quant	ity [pcs]		Ø nominal	Nominal	Max short	Max long term tensile load	
Variant	Fibres	Fibres		Active	(±5%)	weight (±10%)	term tensile load		
		per tube		tubes	[mm]	[kg/km]	[N]	[N]	
8T x 12F	96	12	8	8	13,1	131	4500	2700	

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Crush performance: 3000 [N/10 cm] IEC 60794-1-21 E3, Δα≤0,1 dB, after test

Static: 15 x D Bending radius:

Dynamic: 20 x D IEC 60794-1-21 E6, Δα≤0,05 dB, reversible

Water penetration: 3[m] sample, 1[m] head, 24[h] IEC 60794-1-22 F5B, no leakage

Temperature range

IEC 60794-1-22 F1, Δα≤0,1 dB/km Installation: -10... +70 [°C] Transport & Storage: -30... +70 [°C]

OPTICAL FIBRES AND LOOSE TUBES COLOUR IDENTIFICATION

Tube 01-12	1	2	3	4	5	6	7	8	9	10	11	12
Code												
Colour	Red	Green	Yellow	Blue	Brown	White	Violet	Black	Grey	Orange	Aqua	Pink
Fibre 01-12	1	2	3	4	5	6	7	8	9	10	11	12
Code												
Colour	Red	Green	Yellow	Blue	Brown	White	Violet	Black	Grey	Orange	Aqua	Pink

FIBRES PARAMETERS

For selected post-production optical fibres parameters please see DSH_OFP document.



Туре:	BDC-D04	REV: 2
Issued:	24/06/2019	PB
Modfied:	29/04/2021	AM
Project:	42-19	DR

MARKING

The following marking (hot foil, laser marking or other suitable method depending on availability) is applied at 1-meter intervals:

Example: MÁV Zrt. <YEAR OF MANUFACTURE.> FIBRAIN <FIBRAIN PRODUCT CODE> Fve <TUBE COUNT> X <FIBER COUNT> BR SM LWP <BATCH NUMBER> <LENGTH MARKING>

The accuracy of marking is ±1%. 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 battened disposable wooden or treated wooden drums. Both ends of the cable will be capped and accessible for testing. FIBRAIN logo, drum ID and rotation direction arrow will be marked on both flanges. Minimum drum core diameter is 25 x D (where D stands for diameter of the cable). Test report and plastic label with following information will be attached to each drum (design to be determined according to customer requirements):

- Drum number (ID)
- Manufacturer's name
- MÁV Zrt.
- Cable type according to manufacturer's nomenclature e.g. BDC-D04 8x12 SM G.652D
- Cable type according to customer's nomenclature e.g. Fve 8x12 BR SM LWP
- MÁV cable code
- Cable length in meters
- Date of manufacture (year, month)
- Batch number
- Product order number
- Gross weight in kg
- Test reports for each fibre.

DELIVERY LENGTH

2000 – 8000 meters ± 5% depending on cable design and technical limitations, 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.

This document and the statements contained in it are not intended for customers within the meaning of the Civil Code. The information submitted in this document is to our knowledge and belief true at the time of issue, however, we do not assume any liability whatsoever for its accuracy, and completeness. This document is for informational purposes on an "as is" basis only and Fibrain reserves the right to change its contents at any time without prior notice. The specification cannot, in any case, be considered an offer within the meaning of the Civil Code and is not contractually valid unless specifically authorized by Fibrain. Before using this product, its buyer and/or user has to make sure that it is suitable for the intended use. All liability issues related to this product are subjected to the seller's separate Terms of Sale or the terms and conditions agreed with the Fibrain representative or distributor.