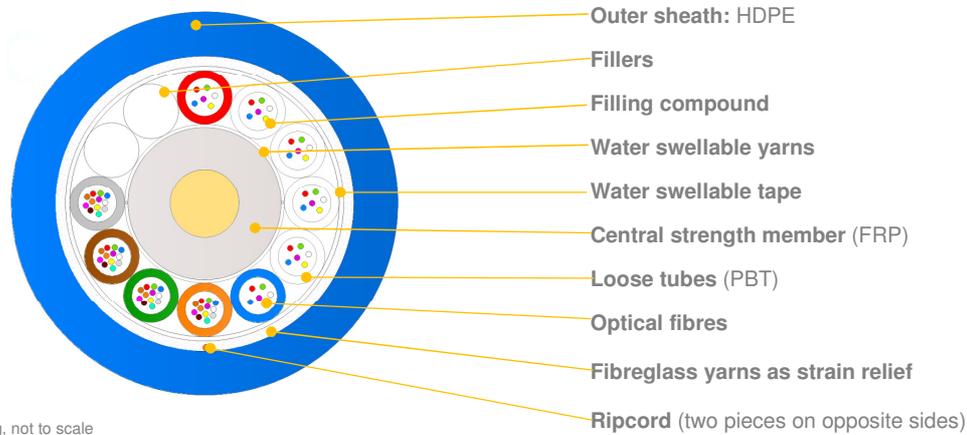


Type:	BDC-C04-84-SF	REV: 0
Issued:	15/10/2021	KP
Modified:		
Project:	079-21	

Basic duct cable with multitube structure and glass yarn reinforcement BDC-C04 84F



*schematic drawing, not to scale

APPLICATION:

For installation into existing duct or directly buried
Fully dielectric cable
Light rodent protection

DESIGN:

FRP strength and anti-buckling element
Dry yarns and tape to prevent longitudinal water ingress
Loose tube (PBT Ø 2,0mm) with filling compound
250µm optical fibres (G657A1)
Water-swellable tape
Fibreglass yarns as strain relief
UV stabilized PE sheath (blue colour RAL5015/5012)
Nominal outer sheath thickness 1,6mm

CABLE DESIGNS:

Variant	Quantity [pcs]				Ø nominal (±5%) [mm]	Nominal weight (±10%) [kg/km]	Max short term tensile load [N]	Max long term tensile load [N]
	Fibres	Fibres per tube	Total elements	Active tubes				
6Tx6F + 4Tx12F	84	6-12	12	10	13,8	140	4000	2000

Other designs 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
Impact	10J, 3 impacts, R= 300 mm	IEC 60794-1-21-E4, $\Delta\alpha \leq 0.05$ dB after the test
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 FIBRES COLOUR IDENTIFICATION

CONSTRUCTION 84F 6T6F + 4T12F

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

TUBES COLOUR CODE (CLOCKWISE)

Tube number	1	2	3	4	5	6	7	8	9	10
Tube colour	Red	Natural	Natural	Natural	Natural	Blue	Orange	Green	Brown	Grey

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MARKING

The following print (laser printer) is applied at 1-meter intervals. Dimension of one character is: min. height: 3,5mm.

Example: SOFICO - G657A1 – 6Tx6F+4Tx12F – “Production date”- “Meter marking”- “Manufacturer” – “Cable ID”

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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