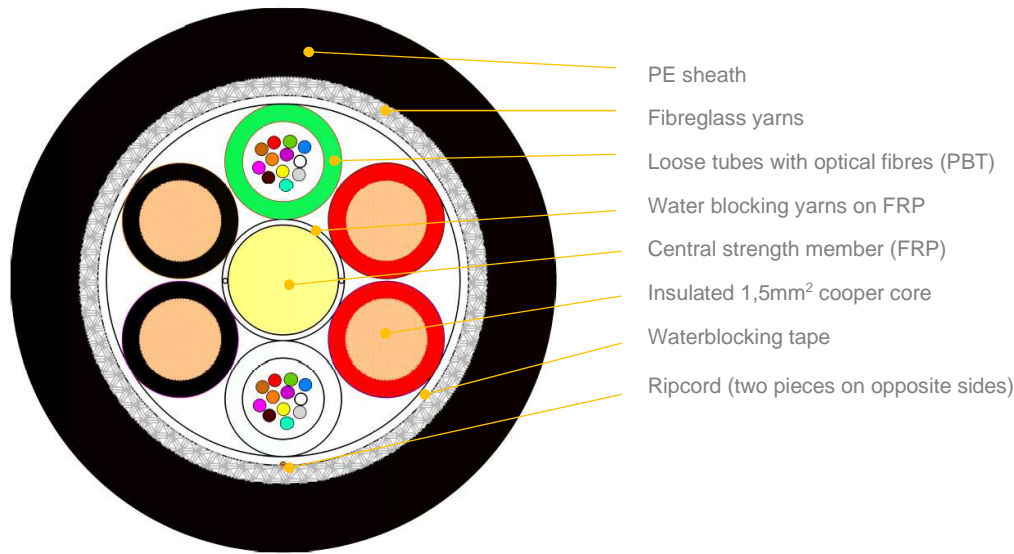


Type:	BDC-CIP T22	REV: 1.7
Issued:	28/03/2017	AM
Modified:	22/02/2021	WW

Basic Duct Cable with Multitube Structure and Copper Conductors Reinforced with Glass Yarns



*not to scale

APPLICATION:

For installation into existing duct
Good resistance to traction and compression

STRUCTURE AND COMPOSITION:

FRP strength and anti-buckling element
Loose tubes with filling compound (PBT Ø 2.2mm)
Insulated cooper core 1,5mm²
Dry yarns to prevent moisture into the cable
UV stabilized PE sheath
Sheath options: LSOH, PA etc

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	Optical Fibre Tubes	Cooper Tubes	Fillers				
4T x 12F + 4x1,5mm ²	48	12	4	4	0	12,1	195	2700	1050
4T x 12F + 2x1,5mm ²	48	12	4	2	0	10,7	135	2700	1100
2T x 12F + 2x1,5mm ²	24	12	2	2	1	10,7	130	2700	1100
2T x 12F + 3x1,5mm ²	24	12	2	3	1	10,7	155	2700	1100
2T x 12F + 4x1,5mm ²	24	12	2	4	0	10,7	175	2700	1100
1T x 12F + 4x1,5mm ²	12	12	1	4	1	10,7	170	2700	1100
6T x 12F + 4x1,5mm ²	72	12	6	4	2	14,8	262	2700	1300
8T x 12F + 4x1,5mm ²	96	12	8	4	0	14,8	263	2700	1300

Other fibre counts available on demand. Cooper wires colours to consult.

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Crush performance:	2700 [N/10 cm]	IEC 60794-1-21-E3, Δα≤0,05 dB
Bending radius:	Static: 15 x D Dynamic: 20 x D	IEC 60794-1-21-E6, Δα≤0,05 dB
Water penetration:	3m sample, 1m head, 24h	IEC 60794-1-22-F5, no leakage
Temperature range:	Installation: -15... +55 [°C] Operation: -40... +70 [°C] Transport & Storage: -40... +70 [°C]	IEC 60794-1-22-F1, Δα≤0,05 dB/km

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TECHNICAL COOPER WIRE CHARACTERISTICS

Max. DC resistance	12,1±0,2 Ω/km@20°C
Dielectric strength	3400 VDC/1 minute
Current-carrying capacity	7A
Operating voltage	65V AC/DC
Conductor material	Bare copper
Conductor cross section	1,5mm ²
Wire diameter	2,2mm
Insulation material	PVC

OPTICAL FIBRE AND LOOSE TUBES COLOUR IDENTIFICATION

Colours identifications see **DSH_Colors_CODE_XXXX**

FIBRE PARAMETERS

Fibres parameters see on **DSH_OFFP**

MARKING

The following print 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-CIP T22 24F SM G652D 2T12F + 4x1,5CU AC/DC 65 V MAX "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING" "BATCH NUMBER"

The accuracy of marking is ± 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.

PACKAGING

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 ± 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.