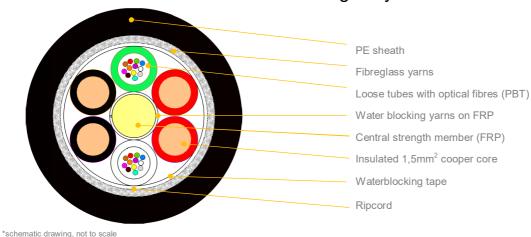
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Type:	BDC-CIP T22	REV: 2.2
Issued:	25/02/2015	PB
Modified:	10/10/2016	MM

Basic duct cable with multitube structure and copper conductors reinforced with fiberglass yarns - BDC-CIP



Quantity [ncs]

APPLICATION:

For installation into existing duct or directly buried Good resistance to traction and compression

STRUCTURE AND COMPOSITION:

FRP strength and anti-buckling element Insulated cooper cores 1,5mm² (Ø 2.2mm) Loose tubes with filling compound (PBT Ø 2.2mm) Tape and dry yarns to prevent moisture into the cable Fiberglass yarns as strain relief elements UV stabilized PE outer sheath Other outer sheaths materials available

Nominal

May

CABLE DESIGNS:

Variant Fibres rube Fibres lements Total elements Active tubes (±10%) (±10%) (±10%) (±10%) (±10%) allowed tension tension tension (±10%) (±10%) (±10%) tension tension tension (±10%) (±10%) (±10%) tension tension tension (±10%) (±10%) (±10%) (±10%) tension tension (±10%) (±		Quantity [pcs]		Ø	Nominal	Max	Max		
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TT x 12F + 5 x 1,5mm2	1T x 12F + 3 x 1,5mm2	12	12	6	1	10,7	149	2700	1300
T x 12F + 1 x 1,5mm2	1T x 12F + 4 x 1,5mm2	12	12	6	1	10,7	170	2700	1300
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3T x 12F + 5 x 1,5mm2 36 12 8 3 12,1 212 2700 1300 4T x 12F + 3 x 1,5mm2 48 12 8 4 12,1 170 2700 1300 4T x 12F + 4 x 1,5mm2 48 12 8 4 12,1 191 2700 1300	3T x 12F + 4 x 1,5mm2	36	12			12,1	190	2700	1300
4T x 12F + 3 x 1,5mm2 48 12 8 4 12,1 170 2700 1300 4T x 12F + 4 x 1,5mm2 48 12 8 4 12,1 191 2700 1300	,	36	12						
4T x 12F + 4 x 1,5mm2 48 12 8 4 12,1 191 2700 1300	,	48	12				170	2700	1300
	,				+				
	,	Other	fibre counts ava	ailable on demand	d. Cooper wire	s colours to co	nsult.		



Type:	BDC-CIP T22	REV: 2.2
Issued:	25/02/2015	PB
Modified:	10/10/2016	MM

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Crush performance: 2700 [N/10 cm] IEC 60794-1-2-E3, Δα≤0,05 dB

Bending radius: Static: 15 x D

Dynamic: 20 x D IEC 60794-1-2-E11, Δα≤0,05 dB

Water penetration: 3m sample, 1m head, 24h IEC 60794-1-2-F5, no leakage

Temperature range: Installation: -15... +55 [°C] IEC 60794-1-2-F1, Δα≤0,05 dB/km

Operation: -40... +70 [°C]
Transport & Storage: -40... +70 [°C]

The customer (as a system designer) is responsible for selection of the amount, and a cross section of copper wires suitable for his needs in such a way that the current load does not result in exceeding the maximum allowed fibre operating temperature (+ 70 ° C) or permissible operating temperature of insulated conductors.

TECHNICAL COOPER WIRE CHARACTERISTICS

Max DC resistance	12,3 Ω/km@20°C		
Electric strength	3400 V DC/1 minute		
Current carrying capacity	7A		
Operating voltage	65V AC/DC		
Conductor material	Bare copper		
Conductor cross section	1,5mm ²		
Insulated conductor dia.	2,2mm		
Insulation material	PVC		

OPTICAL FIBRES AND LOOSE TUBES COLOUR IDENTIFICATION

Fibres and tubes identification information see DSH_Colors_CODE_XXXX document.

FIBRES PARAMETERS

Optical fibres parameters see DSH_OFP document.

MARKING

The following print (white / hot foil) 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

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 ± 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.



