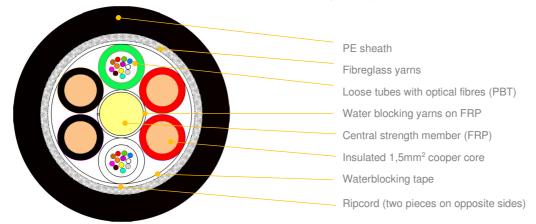


Туре:	BDC-CIP T22	REV: 2.7
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# Basic duct cable with multitube structure and copper conductors reinforced with fiberglass yarns - BDC-CIP



\*schematic drawing, not to scale

# **APPLICATION:**

For installation into existing duct Good resistance to traction and compression

#### STRUCTURE AND COMPOSITION:

FRP strength and anti-buckling element Insulated cooper cores 1,5mm<sup>2</sup> (outer jacket 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

### CABLE DESIGNS:

	Quantity [pcs]			Ø	Nominal	Max	Max	
Variant	Fibres n	Fibres per		Active tubes	nominal	weight	allowed	static
	Fibres	Fibres tube			(±5%)	(±10%)	tension	tension
		lube	elements	lubes	[mm]	[kg/km]	[N]	[N]
1T x 12F + 2 x 1,5mm2	12	12	5	1	10,7	127	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, ∆α≤0,05 dB
Bending radius:	Static: 15 x D Dynamic: 20 x D		IEC 60794-1-21-E11, ∆α≤0,05 dB
Water penetration:	3m sample, 1m head, 24h		IEC 60794-1-22-F5, no leakage
Temperature range:	Installation: Operation: Transport & Storage:	-15 +55 [℃] -40 +70 [℃] -40 +70 [℃]	IEC 60794-1-22-F1, Δα≤0,05 dB/km

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 <sup>2</sup>			
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.



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#### **FIBRES PARAMETERS**

Optical fibres parameters see DSH\_OFP document.

#### MARKING

The following print (hot stamped, laser or other suitable printing method) 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.

#### 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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