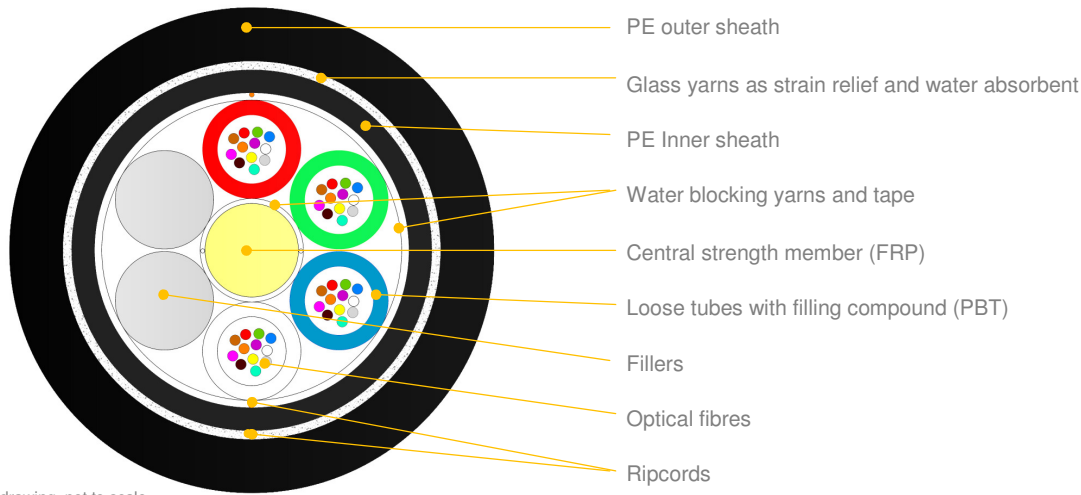


## Double jacket duct cable with multitube structure with glass yarns reinforcement DDC CI



\*schematic drawing, not to scale

### APPLICATION:

For installation into existing duct or directly buried.  
Fully dielectric cable

### STRUCTURE AND COMPOSITION:

FRP strength and anti-buckling element  
Optical fibres  
Loose tube with filling compound (PBT Ø 2.0mm)  
Dry yarns and tape to prevent moisture into the cable  
Glass yarns as tensile elements  
Double PE sheath  
Outer sheath options: LSOH, PA etc.

### CABLE DESIGNS:

Variant	Quantity [pcs]				Ø nominal (±5%) [mm]	Nominal weight (±10%) [kg/km]	Max allowed tension [N]	Max static tension [N]
	Fibres	Fibres per tube	Total elements	Active tubes				
1-6T x 4F	4 - 24	4	6	1-6	11.7	73	4400	2600
1-6T x 6F	6 - 36	6	6	1-6	11.7	73	4400	2600
1-6T x 12F	12 - 72	12	6	1-6	11.8	105	4100	2000
8T x 6F	48	6	8	8	13.0	124	4100	2300
8T x 12F	96	12	8	8	13.0	128	4100	2000
12T x 12F	144	12	12	12	15.5	180	4600	2200
16T x 12F (2 layers)	192	12	16	16	15.9	185	4600	2200
18T x 12F (2 layers)	216	12	18	18	15.9	187	4600	2200
24T x 12F (2 layers)	288	12	24	24	17.6	193	5000	2600
36T x 12F (3 layers)	432	12	36	36	20.6	333	5000	2600
Other fibre counts available on demand								

### MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Crush performance:	3500 [N/10 cm]	IEC 60794-1-2-E3, reversible
Bending performance:	15 x D (10 cycles)	IEC 60794-1-2-E6, $\Delta\alpha \leq 0,05$ dB, reversible
Temperature range:		IEC 60794-1-2-F1, $\Delta\alpha \leq 0,05$ dB/km, reversible
Installation	-15... +55 [°C]	
Operation	-40... +70 [°C]	
Transport & Storage	-40... +70 [°C]	

### OPTICAL FIBRES AND LOOSE TUBES COLOUR IDENTIFICATION

Fibres and tubes identification information see DSH\_Colors\_CODE\_XXXX document.

Type:	DDC-CI XX	REV: 3.3
Issued:	31/10/2014	SK
Modified:	12/12/2016	PB

**FIBRES PARAMETERS**

Optical fibres parameters see **DSH\_OFP** document.

**MARKING**

The following print (white / hot stamping) 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 DDC-CI T20 12F SM G652D 2T6F "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**

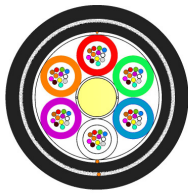
Cables will be shipped on disposable wooden or treated wooden drums. Both ends of the cable will be capped and accessible for testing. Identification information will be placed on the drum.

**DELIVERY LENGTH**

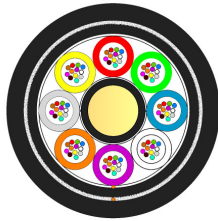
2000 – 8000 meters ± 5%, with possibility of supplying up to 5% of total contract quantity as short length cables which should be above 1000 meters long. Tolerance of 5 % of order quantity shall be allowed.

**ANNEX – DRAWINGS:**

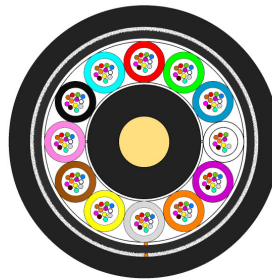
6- elements design



8- elements design



12- elements design



24- elements design



\*schematic drawing, not to scale

The information is believed to be correct at the time of issue. Fibrain reserves the right to change this specification without prior notice. This specification is not contractually valid unless specifically authorised by Fibrain. Buyer and/or user of this product has to make sure before using this product that it is suitable for the intended use. All questions of liability relating to this product are subject – in accordance with the prevailing – to the Terms of Sale of the selling Fibrain subsidiary.