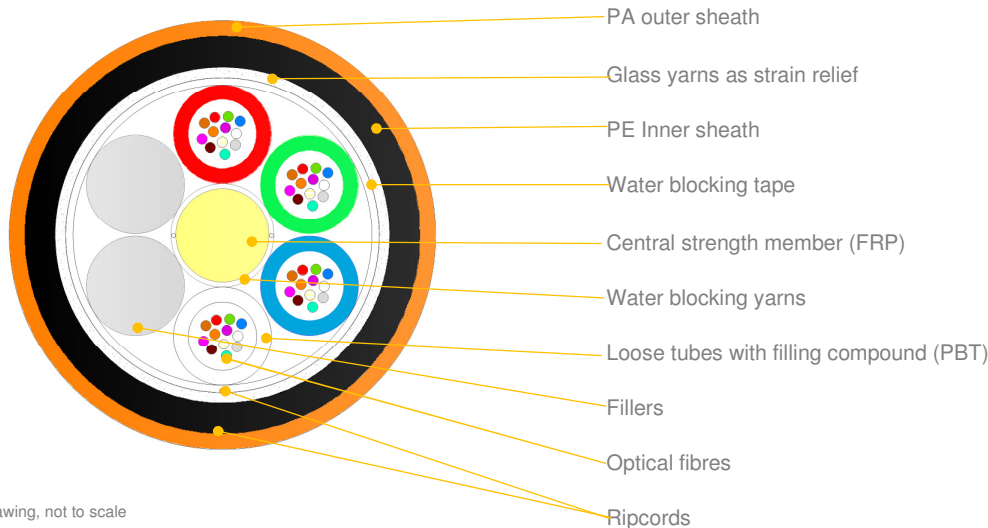


## Double jacket duct cable with multitube structure with glass yarns reinforcement DDC CI (PA-PE)



\*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, PE etc.

### CABLE DESIGNS:

Variant	Quantity [pcs]				Ø nominal (±5%)	Nominal weight (±10%)	Max allowed tension	Max static tension
	Fibres	Fibres per tube	Total elements	Active tubes				
					[mm]	[kg/km]	[N]	[N]
1-6T x 4F	4 - 24	4	6	1-6	10.9	73	4400	2600
1-6T x 6F	6 - 36	6	6	1-6	10.9	73	4400	2600
1-6T x 12F	12 - 72	12	6	1-6	11.0	105	4100	2000
8T x 6F	48	6	8	8	12.1	124	4100	2300
8T x 12F	96	12	8	8	12.2	128	4100	2000
12T x 12F	144	12	12	12	14.7	180	4600	2200
16T x 12F (2 layers)	192	12	16	16	15.1	185	4600	2200
18T x 12F (2 layers)	216	12	18	18	15.1	187	4600	2200
24T x 12F (2 layers)	288	12	24	24	16.6	193	5000	2600
Other fibre counts available on demand								

Other fibre counts available on demand

### MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Crush performance:	3500 [N/10 cm]	IEC 60794-1-21-E3, reversible
Bending performance:	15 x D (10 cycles)	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-F5B, no leakage
Temperature range:		IEC 60794-1-22-F1, $\Delta\alpha \leq 0,05$ dB/km, reversible
Installation	-15... +55 [°C]	
Operation	-40... +70 [°C]	
Transport & Storage	-40... +70 [°C]	

Type:	DDC-CI VX	REV: 1.1
Issued:	31/10/2014	SK
Modified:	04/10/2021	KP

## OPTICAL FIBRE AND LOOSE TUBES COLOUR IDENTIFICATION

For optical fibres and loose tube identification information please see DSH\_Colors\_CODE\_XXXX document.

## FIBRE PARAMETERS

For selected post-production optical fibres parameters please see DSH\_OFP document.

## 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 DDC-CI T20 12F SM G652D 2T6F "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING" "BATCH NUMBER"

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

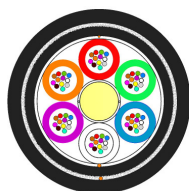
Cables will be shipped on disposable wooden or treated wooden drums. Both ends of the cable will be capped and accessible for testing. Identification information will be placed on the drum.

## DELIVERY LENGTH

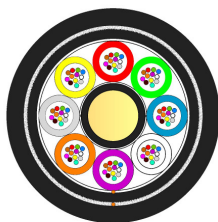
2000 – 8000 meters  $\pm 5\%$ , with possibility of supplying up to 5% of total contract quantity as short length cables which should be above 1000 meters long. Tolerance of 5 % of order quantity shall be allowed.

## ANNEX – DRAWINGS:

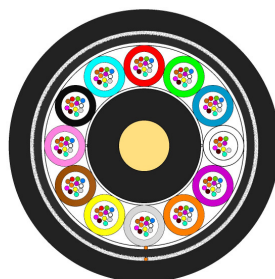
6- elements design



8- elements design



12- elements design



24- elements design



\*schematic drawing, not to scale

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