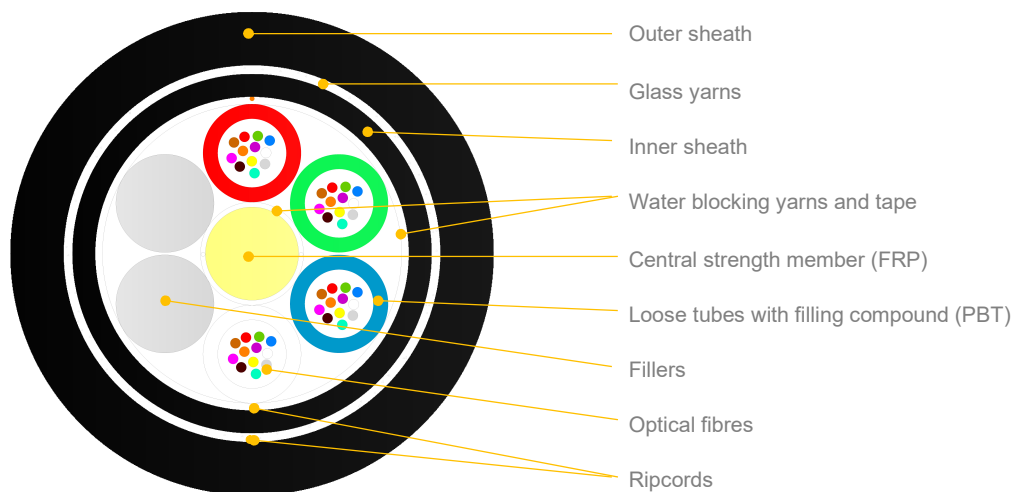


Double jacket duct cable with multitube structure with glass yarns reinforcement DDC C0



*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%)	Nominal weight (±10%)	Max allowed tension	Max static tension
	Fibres	Fibres per tube	Total elements	Active tubes				
					[mm]	[kg/km]	[N]	[N]
48F G.652D 3Tx12F + 3Tx4F	48	12 / 4	6	1-6	11.7	103	3500	1600
	Other construction on demand							

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Crush performance:	3500 [N/10 cm]	IEC 60794-1-21-E3, $\Delta\alpha \leq 0,05$ dB, reversible
Bending performance:	15 x D (10 cycles)	IEC 60794-1-21-E6, $\Delta\alpha \leq 0,05$ dB, reversible
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]	
Water penetration:	3[m] sample, 1[m] head, 24[h]	IEC 60794-1-22-F5B, no leakage

OPTICAL FIBRES AND LOOSE TUBES COLOUR IDENTIFICATION

N.o. Fibre	1	2	3	4	5	6	7	8	9	10	11	12
Tube 1	Red	Green	Blue	White	Violet	Orange	Grey	Yellow	Brown	Pink	Black	Aqua
Tube 2	Red	Green	Blue	White	Violet	Orange	Grey	Yellow	Brown	Pink	Black	Aqua
Tube 3	Red	Green	Blue	White	Violet	Orange	Grey	Yellow	Brown	Pink	Black	Aqua
Tube 4	Red	Green	Blue	White								
Tube 5	Red	Green	Blue	White								
Tube 6	Red	Green	Blue	White								

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.

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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-C0 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