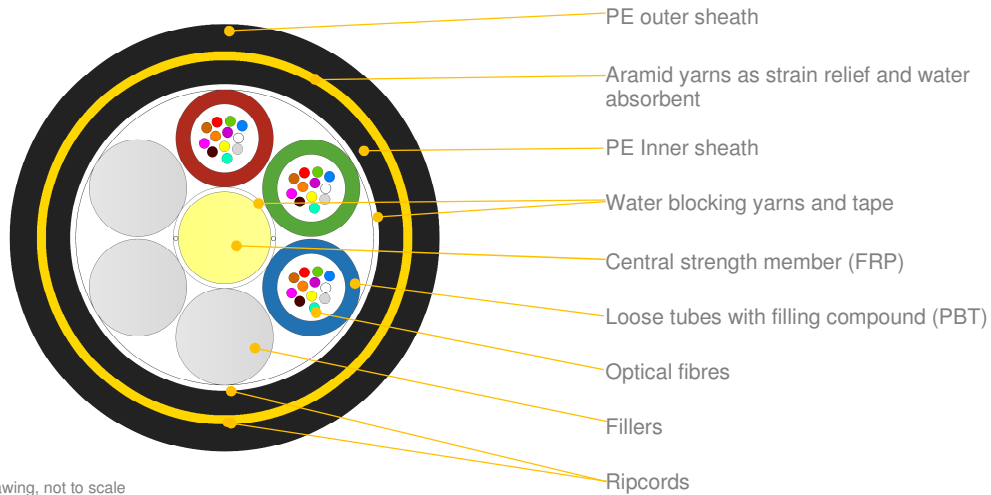


## Double jacket duct cable with multitube structure with aramid yarns reinforcement DDC CIA (PE-PE)



\*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  
Aramid 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]
1-6T x 12F	12 - 72	12	6	1-6	11.7	105	4000	1900
8T x 12F	96	12	8	8	13.0	128	4000	2000
12T x 12F	144	12	12	12	15.5	180	4000	2000
16T x 12F (2 layers)	192	12	16	16	15.9	185	4000	2000
18T x 12F (2 layers)	216	12	18	18	15.9	187	4000	2000
24T x 12F (2 layers)	288	12	24	24	17.6	193	4000	2000
36T x 12F (3 layers)	432	12	36	36	20.6	333	4000	2000
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, Δα≤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, Δα≤0,05 dB/km, reversible
Installation	-15... +55 [°C]	
Operation	-40... +70 [°C]	
Transport & Storage	-40... +70 [°C]	

Type:	DDC-CIA XX	REV: 1.1
Issued:	24/04/2019	WW
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 (laser / hot stamped or other suitable 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 DDC-CIA T20 12F SM G652D 1T12F "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.

This document and the statements contained in it are not intended for customers within the meaning of the Civil Code. The information submitted in this document is to our knowledge and belief true at the time of issue, however, we do not assume any liability whatsoever for its accuracy, and completeness. This document is for informational purposes on an "as is" basis only and Fibrain reserves the right to change its contents at any time without prior notice. The specification cannot, in any case, be considered an offer within the meaning of the Civil Code and is not contractually valid unless specifically authorized by Fibrain. Before using this product, its buyer and/or user has to make sure that it is suitable for the intended use. All liability issues related to this product are subjected to the seller's separate Terms of Sale or the terms and conditions agreed with the Fibrain representative or distributor.