



Color code of the fibers is as per TIA/EIA 598A and IEC 304.

Tube/Fiber Number	Colour	Ring
1	Blue	-
2	Orange	-
3	Green	-
4	Brown	-
5	Grey	-
6	White	-
7	Red	-
8	Black	-
9	Yellow	-
10	Violet	-
11	Pink	-
12	Turquoise	-
13	Blue	Black
14	Orange	Black
15	Green	Black
16	Brown	Black
17	Grey	Black
18	White	Black
19	Red	Black
20	Natural	Black
21	Yellow	Black
22	Violet	Black
23	Pink	Black
24	Turquoise	Black

Drawing for information only (depends of fibers' number)

PRESENTATION

This document specifies a central loose tube cable. The cable is glass yarn reinforced and jacketed with PEHD. The cable is designed for outdoor applications in ducts, direct burial or latched installations.

DESCRIPTION

Up to 24 fibers (1) are enclosed in a PBT tube (2). The fibers are colour coded for easy identification

The tube is filled with water blocking, thixotropic gel to prevent the ingress of water.

Dry water swelling glass yarn (3) is laid over the tube to serve as peripheral strength members and to block the cable from water penetration. A corrugated steel armour tape (4) is longitudinally applied over the yarn with an overlap.

A UV resistant PEHD outer jacket (6) is extruded over the armouring tape.

Two ripcords (5) are laid at 180° under the steel tape to facilitate the jacket removal.

TECHNICAL PROPERTIES

							IEC-60794-1-2 Test Method	TIA/EIA-455 FOTP No.
No. of Fibers	2	4	6	8	12	24		
No. of Tubes	1	1	1	1	1	1		
Nom. Tube Diameter [mm]	3.1	3.1	3.1	3.1	3.1	3.7		
Nom. Diameter [mm]	7.4	7.4	7.4	7.4	7.4	7.4		
Nom. Jacket Thickness [mm]	1.5	1.5	1.5	1.5	1.5	1.5		
Maximum Pulling Load	2500 N	2500 N	2500 N	2500 N	2500 N	2500 N	E1	33
Maximum Operating Load	1500 N	1500 N	1500 N	1500 N	1500 N	1500 N		
Minimum Bending Radius	20 x D						E11	104
Impact Resistance							E4	25
Up to 15 mm O.D.	4.4 J, 3 x 2 times							
15 to 17.5 mm O.D.	7 J, 3 x 2 times							
17 to 20 mm O.D.	10 J, 3 x 2 times							
Over 20 mm O.D.	13 J, 3 x 2 times							
Max. Compressive Loading	5000 N	5000 N	5000 N	5000 N	5000 N	5000 N	E3	41
Twist (Torsion)	10 turn of 180° on 125 x O.D. sample, both ways.						E7	85
Fire Resistance	-							
Storage Temperature Range	- 50° C to +70° C						F1	3
Operating Temperature Range	- 40° C to +70° C						F1	3
Core Fluid Penetration	1 m sample, 1 m water head for 24 Hrs						F5	82
Nom. Weight [kg/km]	85	87	89	91	95	110		

Optical performances

Please refer to MMC document titled « TDS optical performances »

COLOR & MARKING

REFERENCE	DESIGNATION	JACKET COLOUR	MARKING
EXTALCTx	x FO 62.5/125 OM1 LIBRE EXT ARMURE ACIER	BLACK- RAL 9005	MULTIMEDIA CONNECT+ Manuf code + EXTALCTx – x FO 62.5/125 OM1 + Metric Marking + production number
EXTALCTx50	x FO 50/125 OM2 LIBRE EXT ARMURE ACIER	BLACK- RAL 9005	MULTIMEDIA CONNECT+ Manuf code + EXTALCTx50 – xFO 50/125 OM2 + Metric Marking + production number
EXTALCTx500M3	x FO 50/125 OM3 LIBRE EXT ARMURE ACIER	BLACK- RAL 9005	MULTIMEDIA CONNECT+ Manuf code + EXTALCTx500M3 – x FO 50/125 OM3 + Metric Marking + production number
EXTALCTx500M4	x FO 50/125 OM4 LIBRE EXT ARMURE ACIER	BLACK- RAL 9005	MULTIMEDIA CONNECT+ Manuf code + EXTALCTx500M4 – x FO 50/125 OM4 + Metric Marking + production number
EXTALCTx9125	x FO 9/125 OS2 LIBRE EXT ARMURE ACIER	BLACK- RAL 9005	MULTIMEDIA CONNECT+ Manuf code + EXTALCTx9125 – x FO 9/125 OS2 + Metric Marking + production number
EXTALCTx9125G657	x FO 9/125 G657 LIBRE EXT ARMURE ACIER	BLACK- RAL 9005	MULTIMEDIA CONNECT+ Manuf code + EXTALCTx9125G657 – x FO 9/125 G657 + Metric Marking + production number

XX = Number of Fiber