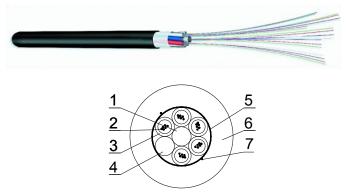
Z-XOTKtsd 12 - 192 Optical Fibre

Spec. No. 2557/1/6/3 MB

24.06.2020, page 1/2

Type: outdoor, fully dielectric

















Cable construction:

- 1. Central element, non-metallic
- 2. Optical fibres
- 3. Loose tube
- 4. Filler
- 5. Waterblocking yarn
- 6. Outer sheath
- 7. Ripcord

CONSTRUCTION					
Element	Туре	Material	Dimensions		
Fibres	ITU-T G.652D , ITU-T G.657A or according to the attached specifications				
Identification of fibres	Comply to IEC EN 60304: Red; Green; Blue; White; Violet; Orange; Grey; Yellow; Brown; Pink; Black; Turquoise fibres above 12 in tube: Red; Green; Blue; White; Violet; Orange; Grey; Yellow; Brown; Pink; Natural; Turquoise with black ring				
Identification of tubes/elements	for each of the layers: First tube - Red, second tube - Green, other tube - natural, filler (when needed) - black				
Central support member	straight rod	Fibre Reinforced Plastic	 φ 1.8 mm for 12, 24, 48, 72 fibres φ 2.3 mm for 96 and 144 fibres φ 3.0 mm for 192 fibres 		
Secondary coating	loose tube - thermoplastic material 12 or 24 fibres	РВТ	 φ 1.8 mm for 12, 24, 48, 72 fik φ 2.2 mm for 96 and 144 fibre φ 1.8 mm for 192 fibres 200μr 	s 250μm	
Filling of the tube	gel	tixotropic gel			
Interstitial waterblocking	dry sealed	swelling yarn			
Outer sheath	black	HDPE	Thickness for 12, 24, 48, 72 fibres: minimum spot average Thickness for 96 and 144 fibres: minimum spot average Thickness for 192 fibres: minimum spot average	0.40 mm 0.55 mm 0.45 mm 0.60 mm 0.55 mm 0.70 mm	
Attenuation @1310 nm	≤ 0.36 dB/km				
Attenuation @1550 nm	≤ 0.23 dB/km				
Marking/Printing:	TF Kable 1 cavo ottico Z-XOTKtsd 24 J (2x12) INF-ING-ST-007-18 4.0 year of production (or according to the agreement). Length marking every meter				
Standard delivery lengths	4200 ± 100 m on wooden drums				

^{*)} Max attenuation for SMF in cable - other parameters of the fibre according to the attached specifications

Z-XOTKtsd 12 - 192 Optical Fibre

Spec. No. 2557/1/6/3 MB

24.06.2020, page 2/2



PARAMETER:	S								
No. of fibres in a Outer		No. of	Cable dimensions		Mechanical properties				
cable	diameter of tube	cable dia	cable	cable diameter weight		Max. tensile load [N]		Min. bending radius [mm]	
	[mm]		[mm]	[kg/km]	Dynamic (during installation)	Static (during the operation)	Dynamic (during installation)	Static (during the operation)	
12 (1x12 250μm)	1.8	1T + 5F	6.5	35	1000	500	15 x outer diameter	20 x outer diameter	
24 (2x12 250μm)	1.8	2T + 4F	6.5	35	1000	500	15 x outer diameter	20 x outer diameter	
48 (4x12 250μm)	1.8	4T + 2F	6.5	35	1000	500	15 x outer diameter	20 x outer diameter	
72 (6x12 250μm)	1.8	6T	6.5	35	1000	500	15 x outer diameter	20 x outer diameter	
96 (4x24 250μm)	2.2	4T + 2F	8.0	52	1500	750	15 x outer diameter	20 x outer diameter	
144 (6x24 250μm)	2.2	6Т	8.0	52	1500	750	15 x outer diameter	20 x outer diameter	
192 (8x24 200μm)	1.8	8T	8.0	58	1500	750	15 x outer diameter	20 x outer diameter	

ADDITIONAL MECHANICAL PROPERTIES					
Test	Standard	Value	Acceptance criteria		
Crush	IEC 60794-1-2-E3	1000 N; t =15 min	∆α ≤ 0.05 dB, no damage		
Impact	IEC 60794-1-2-E4	3 Nm, 3 impacts	$\Delta \alpha \le 0.05$ dB after the test		
Repeated bending	IEC 60794-1-2-E6	R=20×D; F=100 N 100 cycles, 90 °, 15 cycles/min	Δα ≤ 0.1 dB, no damage		
Torsion	IEC 60794-1-2-E7	100 N, 5 cycles, 360	Δα ≤ 0.05 dB, no damage		

ENVIRONMENTAL SPECIFICATIONS					
Water penetration	IEC 60794-1-2-F5B	sample 1 m, water head 1 m	, 24 hours		
		- transport/storage	-40/+70 °C		
Temperature range		- installation	-15/+60 °C		
		- operation	-30/+70 °C		

FEATURES

- fully dielectric
- resistant to electromagnetic interferences
- secured from longitudinal water penetration
- resistant to abrasion, UV and stress corrosion

APPLICATIONS

Cable is designated for a long distance transmission of digital and analogue signals within the whole optical bandwidth used in wide and local telecom networks of any spatial configuration. Suitable for use in primary and secondary cable ducts or in the proximity to HV lines.

Z-XOTKtsd 12 - 192 Optical Fibre

Spec. No. 2557/1/6/3 MB 24.06.2020, page 3/2



All the information contained in this document - including tables and diagrams - is given in good faith and believed to be correct at the time of publication. The information does not constitute a warranty nor representation for which TELE-FONIKA Kable assumes legal responsibility. TELE-FONIKA Kable reserves rights to introduce changes to the document at any time.

