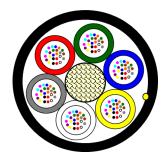


TDS2912-R4_RO v2 A-DQ(ZN)2Y



MICRODUCT OPTICAL MINICABLE

Cable Design IEC/EN 60794-3-10



- not to scale -

- Central Strength Member (CSM): glass fibres reinforced plastic material (GRP).
- Loose Tubes: thermoplastic material containing optical fibres and filled with a suitable water tightness compound.
- Filler Elements: thermoplastic rods, where needed
- Stranding: loose tubes, SZ stranded around the CSM.
- Binding elements: aramid yarns.
- Longitudinal Water Tightness: water swellable materials (dry core).
- Outer Sheath: HDPE.

This dielectric optical cable is designed for microduct installation using blowing technology.

Technical data

No. of Fibres		144
Design	-	6x24
Number of fillers	-	-
Tube diameter - ø	mm	1.65
CSM / Enlargement - ø	mm	1.8/-
Sheath thickness	mm	0.4
Cable diameter - ø	mm	6.0
Cable weight	Kg/Km	32

Min. bending radius	mm	Under Maximum Tension:	20xCable-ø	Without Tension: 15xCable-ø		
Temperature range	°C			llation: > +50	Operation: -30 -> +70	

Main characteristics

Test	Standard	Value	Requirement*
Tensile strength - Installation	IEC 60794-1-2-E1	1500N	Δ I/I fibre \leq 0.6%, $\Delta\alpha$ reversible
Tensile strength - Operation	IEC 60794-1-2-E1	500N	Δ I/I fibre \leq 0.2%, $\Delta\alpha \leq$ 0.05 dB
Cable Bend	IEC 60794-1-2-E11	R=20xOD, 5 cycles, 5 turns	$\Delta\alpha \leq$ 0.05 dB after the test, no damage
Repeated Bending	IEC 60794-1-2-E6	R=20xOD, 100N, 35 cycles	$\Delta\alpha \leq$ 0.05 dB after the test, no damage
Kink	IEC 60794-1-2-E10	10xOD	No kink
Crush - Short Term	IEC 60794-1-2-E3	1000N/100mm, max. 1min	$\Delta\alpha \leq$ 0.05 dB under test, no damage
Crush - Long Term	IEC 60794-1-2-E3	700N/100mm, max. 15min	$\Delta\alpha \leq$ 0.10 dB under test, no damage
Impact	IEC 60794-1-2-E4	1 J, 1 impact, R=300 mm	$\Delta\alpha \leq$ 0.05 dB after the test, no damage
Cable Torsion	IEC 60794-1-2-E7	±180°, 2 m, 5 cycles	$\Delta\alpha \leq$ 0.05 dB after the test, no damage
Temperature Cycling	IEC 60794-1-2-F1	-30 -> +70 °C, 2 cycles	$\Delta \alpha \leq$ 0.10 dB/Km, reversible
Water Penetration	IEC 60794-1-2-F5B	3 m sample, 24 h	No water penetration

^{*} values for single-mode fibres, all optical measurements performed at 1550 nm

Optical Characteristics

See the attached 200µm cabled optical fibre data sheet.



TDS2912-R4_RO v2 A-DQ(ZN)2Y



Identification

Fibre Colors for G.657A2 200µm:

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	red	green	blue	yellow	white	grey	brown	violet	turquoise	black	orange	rose
No.	13	14	15	16	17	18	19	20	21	22	23	24
Color	red#	green#	blue#	yellow#	white#	grey#	brown#	violet#	turquoise#	white##	orange#	rose#
				I						- 11		

Fiber Colors:

red, green, yellow, brown, blue, violet, black, pink, orange, turquoise, white, grey, red#, green#, yellow#, brown#, blue#, violet#, white#, pink#, orange#, turquoise#, white##, grey#, #=one black ring, ##=two black ring

Fibre Colors for G.657A1 200µm

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	red	green	blue	yellow	white	grey	brown	violet	turquoise	black	orange	rose
No.	13	14	15	16	17	18	19	20	21	22	23	24
Color	red#	green#	blue#	yellow#	white#	grey#	brown#	violet#	turquoise#	natural#	orange#	rose#

Fiber Colors:

red, green, yellow, brown, blue, violet, black, pink, orange, turquoise, white, grey, red#, green#, yellow#, brown#, blue#, violet#, white#, pink#, orange#, turquoise#, natural#, grey#, #=one black ring,

Tube Colors:

Fiber Count	Elements							
No. of tubes x no. of fibres per tube	1	2	3	4	5	6		
6 x 24	RD24T	GR24T	BL24T	YE24T	WH24T	GY24T		

where:

RD24T=Red tube with 24 fibers, GR24T=Green tube with 24 fibers, BL24T=Blue tube with 24 fibers, YE24T=Yellow tube with x = 1000 fibers, WH24T=White tube with 24 fibers, GY24T=Grey tube with 24 fibers.

Sheath Color:

The outer sheath colour is black.

Sheath Marking:

The outer sheath is marked in 1 meter intervals as follows:

PRYSMIAN(S) yyyy OPTICAL CABLE A-DQ(ZN)2Y n x 24 <fiber type> zzzz

where: yyyy = year of production, n = no. of tubes, zzzz = sequential length mark, < fiber type > = E9/125, E50/125, E62.5/125.

Logistic

Packing:

Wooden drums with protection.

Delivery Lengths: $4000 \pm 200 \text{ m}$

Other lengths available upon agreement, up to a maximum of 10% of the total number of cable lengths could be shorter than nominal values.

[©] PrysmianGroup 2020, All Rights Reserved

All sizes and values without tolerances are reference values. Specifications are for product as supplied by PrysmianGroup: any modification or alteration afterwards of product may give different result.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of PrysmianGroup. The information is believed to be correct at the time of issue. PrysmianGroup reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorized by PrysmianGroup.