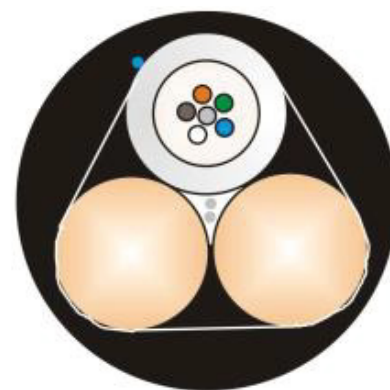


TD 24-428

Central Loose Tube ADSS Optical Cables (ASU)

Cable Design IEC/EN 60794-3-20

- **Tube:** thermoplastic material, containing up to 24 optical fibres and filled with a suitable water tightness compound.
- **strength member:** tow glass fibre reinforced plastic material (FRP).
- **Stranding:** The loose tube and two FRP rods are applied in SZ stranded.
- **Longitudinal water tightness:** water blocking yarns (dry core).
- **Outer Sheath:** Black UV resistant polyethylene. 1 ripcord beneath.



- not to scale -

Technical data

No. of Fibres	12 / 24	48
Design(element × fibre per tube)	1x12	1x24
Loose Tube / Filler - Ø nominal (mm)	2.3	3.0
CSM/coating nominal diameter (mm)	2.0	2.2
Outer sheath nominal thickness (mm)	1.35	1.35
Cable nominal Diameter (mm)	7.2	8.5
Cable Weight (kg/km)	43	57
Maximum span (m)	120	120
Min. bending radius (mm)	Without Tension 10 x Ø del cable	Under Maximum Tension 20 x Ø del cable
Temperature range (°C)	Installation -10 → +60°C Transport. & Storage -40 → +70°C Operation -25 → +65	

Please refer to our General Installation, Safety & Handling recommendations before handling.

Main characteristics

Test	Standard	Value	Sanction*
Max. Operating tension	IEC 60794-1-21-E1	2.0 x W x 9.81 N W=weight of 1km cable	fibre strain $\leq 0.2\%$, $\Delta\alpha$ reversible
Crush (short term)	IEC 60794-1-21-E3	1500 N / 100 mm	$\Delta\alpha \leq 0.1$ dB
Temperature range	IEC 60794-1-22-F1	-25 -> +65 °C	$\Delta\alpha \leq 0.1$ dB/km
Water Penetration	IEC 60794-1-22-F5C	sample=3m, water=1m	No water leakage after 24 hour





* values for single-mode fibres, all optical measurements performed at 1550 nm.

Optical Characteristics


See the attached cabled optical fibre data sheet.

Identification

Fibre Colours

No.	1	2	3	4	5	6	7	8	9	10	11	12
colour	blue	orange	green	brown	grey	white	red	black	yellow	violet	pink	aqua
												
No.	13	14	15	16	17	18	19	20	21	22	23	24
colour	Blue with black tracer	Orange with black tracer	Green with black tracer	Brown with black tracer	Grey with black tracer	White with black tracer	Red with black tracer	Natural with black tracer	Yellow with black tracer	Violet with black tracer	Pink with black tracer	Aqua with black tracer
												

Loose Tube Colours

No. tubo	1
colour	natural
	

The outer sheath colour is black.

Sheath Marking:

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

Sheath Marking As Customer Requested

Logistic

Packing:

Wooden drums with protection.

Delivery Lengths:

Standard delivery length is 4km with a tolerance of -5% / +5%.

All measurements in accordance with ITU-T G650 recommendations

© PrysmianGroup 2015, All Rights Reserved

All sizes and values without tolerance are reference values. Specification 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 authorised by PrysmianGroup.