# TD 24-428

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	Name	Signature	Date
Issued by	Zhang Zixin	Zhang Zixin	24 <sup>th</sup> Jun. 2024
Approved by	Wang Wusheng	Wang Wusheng	24 <sup>th</sup> Jun. 2024

CUSTOMER APPROVAL					
	Name	Signature	Date		
Approved by					

NOTE: Please return this TD signed for acceptance together with the purchase order. An unsigned TD will be considered fully accepted upon receipt of the purchase order.

# **Loose Tube**



# TD 24-428

# **REVISION SHEET**

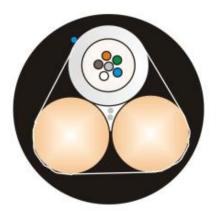
Issue No.	Date	
02	24 <sup>th</sup> Jun. 2024	Issue for ASU cables (DRAFT)





# **Central Loose Tube ADSS Optical Cables (ASU)**

**Cable Design** 



- **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
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 Cable-Ø	Und	er Maximum Tension 20 x Cable-Ø
Temperature range	°C	Installation -10 -> +60;	Transport. & Storage -40 -> +70 ;	Operation -25 -> +65

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

# **Main characteristics**

Standard	Value	Sanction*
IEC 60794-1-21-E1	2.0 x W x 9.81 N	fibre strain $\leqslant$ 0.2%, $\Delta \alpha$ reversible
	W=wight of 1km cable	
IEC 60794-1-21-E3	1500 N / 100mm	$\Delta \alpha \leq$ 0.1 dB
IEC 60794-1-22-F1	-25 -> +65°C	$\Delta \alpha \leq$ 0.1 dB /km
IEC 60794-1-22-F5C	sample=3m, water=1m	No water leakage after 24 hour
	IEC 60794-1-21-E1 IEC 60794-1-21-E3 IEC 60794-1-22-F1	IEC 60794-1-21-E1 2.0 x W x 9.81 N   W=wight of 1km cable   IEC 60794-1-21-E3 1500 N / 100mm

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

# **Optical Characteristics**

See the attached cabled optical fibre data sheet.

# **Loose Tube**



## 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.	1	
Colour	natural	

## **Sheath Colour:**

The outer sheath colour is black.

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

**Sheath Marking As Customer Reugsted** 

## Logistic

#### Packing:

Wooden drums with protection.

#### **Delivery Lengths:**

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

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