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| | Name | Signature | Date |
|-------------|-------------|--------------------|----------------------------|
| Issued by | Zhang Zixin | <i>Zhang Zixin</i> | 24 th Feb. 2017 |
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| 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.

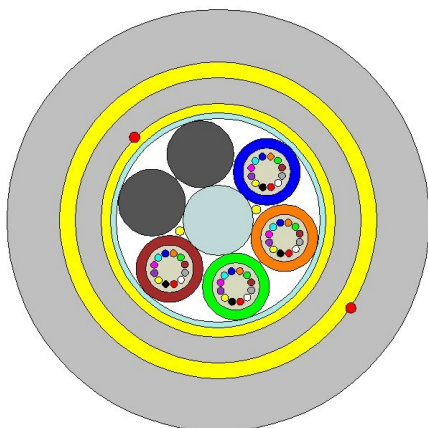
REVISION SHEET

| Issue No. | Date | |
|------------|----------------------------|---|
| 01 | 30 th Jan. 2017 | First issue |
| 01 revised | 9 th Feb. 2017 | Revise maximum span, sag, wind speed and MOT under limited fiber strain |
| 02 | 9 th Feb. 2017 | Change into 48F |
| 02 revised | 24 th Feb. 2017 | Add thermal expansion coefficient and elasticity modulus calculated value |
| | | |
| | | |

ADSS 48F G652D Span 871m

Cable Design

IEEE 1222 / IEC/EN 60794-3-20



- not to scale -

- **Central strength member (CSM):** glass fibre reinforced plastic material (FRP).
- **Tube:** thermoplastic material, containing 12 optical fibres and filled with a suitable water tightness compound.
- **Stranding:** the required number of elements (tubes or fillers) are SZ stranded around the central strength member.
- **Core Wrapping:** water blocking tape (dry core).
- **Inner Sheath:** PE. 1 ripcord beneath.
- **Peripheral reinforcement:** aramid yarns.
- **Outer Sheath:** Anti-tracking PE. 1 ripcord beneath.

Technical data

| No. of Fibres | | 48 |
|---|--------------------|--|
| Design(element × fibre per tube) | | 6x12 |
| Loose Tube / Filler - Ø nominal | mm | 2.55 |
| CSM/coating nominal diameter | mm | 2.7 |
| Inner sheath nominal thickness | mm | 0.9 |
| Outer sheath nominal thickness | mm | 1.5 |
| Cable nominal Diameter | mm | 15.5 |
| Cable Weight | kg / km | 195 |
| Maximum Span | m | 871 |
| Minimum Sag | % | 4.0 |
| Maximum installation tension | kN | 5.7 |
| Max. Operating tension (MAT) | kN | 28 |
| thermal expansion coefficient(20°C) | 1/°C | 5.39 E-6 |
| elasticity modulus(20°C) | kg/mm ² | 2735 |
| Maximum installation condition Temperature: -1°C; Maximum wind:150.7 km/h; Ice thickness:0mm | | |
| Min. bending radius | mm | Without Tension 15 x Cable-Ø Under Maximum Tension 20 x Cable-Ø |
| Temperature range | °C | Installation Transport. & Storage Operation -40 -> +70; -40 -> +70 ; -40 -> +70 |

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

*thermal expansion coefficient and elasticity modulus are technical calculated value at the temperature 20°C

Main characteristics

| Test | Standard | Value | Sanction* |
|---------------------------|------------------|-----------------|---|
| Max. installation tension | IEC 60794-1-2-E1 | see above table | no visible fibre strain, $\Delta\alpha$ reversible |
| Max. Operating tension | IEC 60794-1-2-E1 | see above table | fibre strain $\leq 0.2\%$, $\Delta\alpha$ reversible |
| Crush(short term) | IEC 60794-1-2-E3 | 3000 N / 100mm | $\Delta\alpha \leq 0.1$ dB |

| | | | |
|-------------------|-------------------|---------------------|--------------------------------|
| Temperature range | IEC 60794-1-2-F1 | -40 -> +70°C | $\Delta\alpha \leq 0.1$ dB /km |
| Water Penetration | IEC 60794-1-2-F5B | 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 |
| |  |  |  |  |  |  |  |  |  |  |  |  |

Buffer Tube Colours

| No. | 1 | 2 | 3 | 4 |
|--------|---|---|---|---|
| Colour | blue | orange | green | brown |
| |  |  |  |  |

Fillers are black

Sheath Colour:

The inner and outer sheath colour is black.

Sheath Marking:

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

PRYSMIAN <year> ADSS Span 871m <Fiber count x Fiber type> <length marking in meter>

Logistic

Packing:

Wooden drums with protection.

Delivery Lengths:

Standard delivery length is 4km with a tolerance of $\pm 3\%$.

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