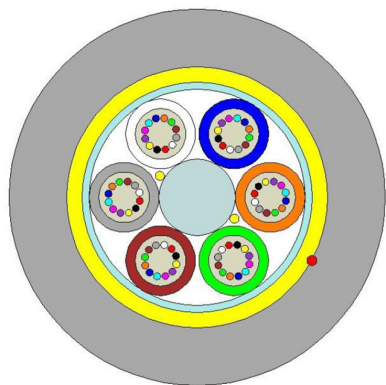


12F 24F 36F 48F 72F 96F 144F ADSS Cable, 100m Span (1.0% SAG, NESC Light)

Cable Design

IEC/EN 60794-3-20



- ✓ **Central strength member (CSM):** glass fibre reinforced plastic material (FRP) with PE coating when needed.
- ✓ **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).
- ✓ **Peripheral reinforcement:** aramid yarns.
- ✓ **Outer Sheath:** HDPE. 1 ripcord beneath.

Technical data

| No. of Fibres | | 12, 24 | 36, 48, 72 | 96 | 144 |
|----------------------------------|---------|---------------------------------|------------|---------------------------------------|-------------------------|
| Design(element × fibre per tube) | | 6x6 | 6x12 | 8x12 | 12x12 |
| Loose Tube / Filler - Ø nominal | mm | 2.1 | 2.2 | 2.2 | 2.1 |
| CSM/coating nominal diameter | mm | 2.3 | 2.5 | 2.7/3.9 | 2.5/6.5 |
| Outer sheath nominal thickness | mm | 1.5 | 1.5 | 1.5 | 1.6 |
| Cable nominal Diameter | mm | 10 | 10.4 | 11.7 | 14.3 |
| Cable Weight | kg / km | 75 | 82 | 107 | 147 |
| Maximum installation tension | N | 1000 | 1000 | 1200 | 1900 |
| Max. Operating tension | N | 1900 | 2000 | 2400 | 3000 |
| Maximum span | m | | 100 | | |
| Minimum sag | % | | 1.0 | | |
| NESC CONDITIONS | | | NESC | | |
| Min. bending radius | mm | Without Tension 10 x Cable-Ø | | Under Maximum Tension 20 x Cable-Ø | |
| Temperature range | °C | Installation -10 -> +60; | | Transport. & Storage -40 -> +70 ; | Operation -40 -> +70 |

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

Main characteristics

| Test | Standard | Value | Sanction* |
|---------------------------|--------------------|---------------------|-------------------------------------------------------|
| Max. installation tension | IEC 60794-1-21-E1 | see above table | no visible fibre strain, $\Delta\alpha$ reversible |
| Max. Operating tension | IEC 60794-1-21-E1 | see above table | fibre strain $\leq 0.2\%$, $\Delta\alpha$ reversible |
| Crush(short term) | IEC 60794-1-21-E3 | 2200 N / 100mm | $\Delta\alpha \leq 0.1$ dB |
| Temperature range | IEC 60794-1-22-F1 | -40 -> +70°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.