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All-dielectric design

UV-resistant

05.05.2021

Product Datasheet fiber optic cable: InAir ADSS MT Aramid DJ-36U (3x12)-6kN

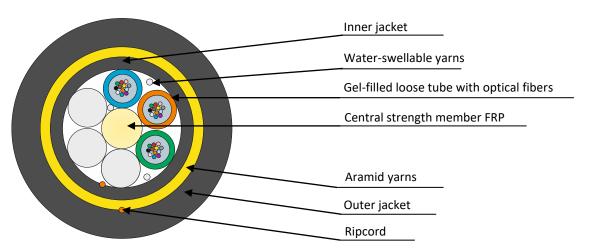
| Order information | | | | |
|---|--------------|--|--|--|
| Design | Part number | | | |
| InAir ADSS MT Aramid DJ-36U (3x12)-6kN | 0325-76546-9 | | | |
| Other files south surile ble upon request | | | | |

Other fiber counts available upon request

Typical application and features

- Aerial installation between poles and buildings
- Aerial installation on powerlines
- Aerial installation for communication lines
- Pulling into underground ducts and sewer pipes
- Installation along bridges, tunnels and other structures
- Installation into indoor/outdoor cable conduits and trays

Design



Cable consists of stranded core with central strength member (FRP), gel-filled loose tubes with optical fibers and PBT fillers. Stranded core is fixed by water-swellable yarns. Inner jacket is made of LDPE. Aramid yarns are laid over inner jacket. Outer jacket is made of MDPE. One ripcord is laid under each jacket (orange color). Meets IEEE 1222-2011.

Optical fibers and loose tubes color identification:



Other colors upon request

| Лa | rking is made o | n each 2 feet of | cable | | | | | | | |
|---------------------------------------|--|--|-----------------------------------|-------------|--------------|--------|-------|--------------------------|------|------|
| 000 | 1 FT = INCAB | OPTICAL CABLE = | PART NUMBER InAi | r ADSS MT / | Aramid DJ 3 | 6 U | (3 | x 12) | 6kN | 2021 |
| | | | | | | | | | | |
| 1 | L 2 | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| _ | Foot marking | | | 6 | Fiber type | | | | | |
| 2 | Manufacturer | | | 7 | Number o | | | | | |
| 3 | Part number | | | 8 | Fibers per | | | | | |
| ŀ | Cable trade na | me | | 9 | Maximum | | - | tension | | |
| 5 | Fiber count | a upon roquest N | 1arking can also be ir | 10 | Year of pro | oducti | on | | | |
| | | rupon request. w | | lineters | | | | | | |
| | sign details | | | | | | | 26 | | |
| | er count | | | | | | | 36 | | |
| | mber of loose to | | | | | | | 3 | | |
| _ | ers per loose tu | | | | | | | 12 | | |
| | mber of PBT fille | | <i>//</i> / | | | | | 3 | | |
| | se tube diamet | | mm (in) | | | | | .6 (0.102) | | |
| | er jacket thickn | | mm (in) | | | | | .7 (0.028) | | |
| | ter jacket thickr | | mm (in) | | | | | 85 (0.073 | - | |
| | ole diameter ± 0 | 0.2 (0.008) | mm (in) | | | | | 3.1 (0.516 | | |
| | ole weight | | kg/km (lb/ft) |) | | | | 8.7 (0.086 | | |
| | ximum rated de | _ | kN (lb) | | | | | .0 (1349) | | |
| | o fiber strain m | - | kN (lb) | | | | | .0 (1349) | | |
| | nging tension (S | - | kN (lb) | | | | | 1.5 (337) | | |
| | ed breaking str | | kN (lb) | | | | | .37 (2332 | | |
| | dulus of elastic | - | kN/ mm² (ks | | | | | .81 (698) | | |
| _ | dulus of elastic | - | kN/mm² (ksi | | | | | .20 (753) | | |
| | dulus of elastic | | kN/mm² (ksi |) | | | | .37 (488) | | |
| | ole cross-section | | mm² (in²) | | | | | 34.8 (0.2) | | |
| | | mal expansion, | 10 ⁻⁶ 1/°C (1/°F) | | | | 1 | 5.51 (8.6) | | |
| the | r design upon rec | quest | | | | | | | | |
| Opt | tical fiber | | | | | | | | | |
| ibe | er type | | | | | | | «U» | | |
| Fiber brand | | | Corning SMF 28 [®] ULTRA | | | | | | | |
| τU | -T Recommend | ation | | | | | G.652 | 2D + G.65 | 7.A1 | |
| | | | Dime | nsional Sp | pecification | s | | | | |
| Cor | e-Clad Concent | ricity | | | | | | 0.5 μm | | |
| Cladding Diameter | | | | 125 ±0.7 μm | | | | | | |
| Cladding Non-Circularity | | | 0.7 % | | | | | | | |
| | Coating Diameter | | | 242 ±5 μm | | | | | | |
| | - | | Trans | mission S | pecification | S | | | | |
| ١tt | enuation in the | cable (dB/km)* | | | | | | | | |
| 1310 nm wavelength (Typical** / Max.) | | | 0.32 / 0.34 | | | | | | | |
| | | | | | | | | | | |
| 131 155 * Loc | 10 nm waveleng 50 nm waveleng al attenuation dis | gth (Typical** / gth (Typical** / scontinuities caus | : Max.) | on a reel a | re allowed | | 0 | .32 / 0.34 .19 / 0.20 | | |

** Typical attenuation is the real level of optical attenuation of at least 90% fibers after cabling

Additional information about optical fiber at <u>www.incabamerica.com</u>

| -50°C+70°C | -58°F+158°F -76°F+158°F* | | |
|-------------------------------|---|--|--|
| -60°C+70°C* | | | |
| * Available upon request | * Available upon request | | |
| -30°C+50°C | -22°F+122°F | | |
| -50°C+70°C | -58°F+158°F | | |
| 15 x cable diameter | | | |
| 25 years (per fiber supplier) | | | |
| | -60°C+70°C* * Available upon request -30°C+50°C -50°C+70°C 15 x cable | | |

| Reel capacity | | |
|---------------------------------|---------|-----------|
| Maximum reel length* | 4,000 m | 13,000 ft |
| * Longer length may be possible | | |
| Longer length may be possible | | |
| | | |
| neters | | |

| Cable parameters | | | | |
|---|--|--------------------------------|--|--|
| Parameter | Nominal value | Evaluation criterion | | |
| Tensile strength (IEEE 1222-2011 p.6.5.1.2.) | 6 kN | | | |
| Crush (IEEE 1222-2011 p.6.5.2.2.) | 0.22 kN/cm | - Δα* ≤ 0.10 dB - no damage | | |
| Twist (IEEE 1222-2011 p.6.5.2.4.) | - 10 cycles - torsion angle ±360° length 4 m | | | |
| Water ingress test (IEEE 1222-2011 p.6.5.3.3.) | Sample length: 3 m Testing time: 24 hours | No water at the cable end | | |
| Temperature cycling** (IEEE 1222-2011 p.6.5.3.5.) | temperature range from -50°C to 70°C 2 cycles cycle period ≥16 hours | Δα ≤ 0.10 dB/km | | |
| Seepage of flooding compound (IEEE 1222-2011 p.6.5.2.7.) | at 65°C | No dripped compound | | |

* - attenuation increasing at standard wavelengths

** - other temperature range upon request

Reel packing and marking

Cables are supplied on non-returnable wooden reels. Reel diameter is not less than 40 diameters of the cable. Not less than 2 m of inside end of the cable is fixed to the reel flange. The cable ends are sealed with waterproof covers. The label on the outer reel flange contains our trademark, cable type, customer's name and PO, reel number, production date, cable length, cable weight net/gross.

The following information is printed on the reel flange: manufacturer's name and website, rotation direction, cable end indication, shipping and handling summary, labels "Fragile" and "Handle with care".

Our cable passport shows: cable type, technical standard number, cable length, fiber type, fiber coloring, fibers per tube, tube identification coloring, final attenuation for all fibers, refractive index of the fiber, fiber manufacturer and production date.

Cable passport is affixed to the inner flange in a plastic bag. Additional information can be included on the passport upon request.

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