

Pre-Connectorized Drop Cable (PCDC)

AERIAL AND DUCT CABLE 5.0MM - PIA

Aginode Ref: PCDCIxxxx - SP2065

This outdoor cable is suitable for duct and aerial installation, featuring a jelly-filled loose tube with 1 fibre, dry water-blocking materials, and an HDPE sheath reinforced with two embedded FRP rods.

This cable is designed for outdoor duct and aerial installations. It features a loose tube construction containing 1 fibre, filled with jelly for fibre protection. The cable includes water-blocking materials to prevent moisture ingress. Its outer sheath is made of high-density polyethylene (HDPE) and includes two fibre-reinforced plastic (FRP) elements embedded symmetrically in the sheath for added strength and stability.

Breaking load: max 2000N

PIA Approved



STANDARDS

IEC 60794

IEC 60793

Test Methods

All optical measurements at 1550 nm

| Test | Conditions | Acceptance criteria |
|--------------------------------------|--|---|
| Tension Loading IEC 60794-1-2 E1 | Tensile strength: 800N and 300N Sample length: ≥ 50 m, 1 min | $\Delta\alpha \leq 0.1$ dB under 300N and reversible under 800N |
| Crush/Compression IEC 60794-1-2 E3 | Crush: 20Kg/cm, 1min Number of tests: 3, at least 20cm apart. | $\Delta\alpha$ reversible No damage |
| Impact IEC 60794-1-2 E4 | Impact energy: 5Nm, R=300mm number of test: 3 | $\Delta\alpha$ reversible |
| Torsion IEC 60794-1-2 E7 | 1m, $\pm 180^\circ$, 10 cycles | $\Delta\alpha \leq 0.1$ dB |
| Bending IEC 60794-1-2 E11 | R=10xCable Φ , 4 turn, 3 cycles | $\Delta\alpha$ reversible |
| Temperature Cycling IEC 60794-1-2 F1 | -20~+70°C, two cycles, t1=180min | $\Delta\alpha \leq 0.1$ dB |
| Water penetration IEC 60794-1-2 F5B | Height of water column: 1m Sample length: 3m, 24h | No water leakage |

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Eigenschaften

Konstruktionsmerkmale

| | |
|--------------|--|
| Farbe | Schwarz |
| Verbindertyp | Hardened Standard (Corning Optitap compatible) |
| dielektrisch | Yes |
| Fasertyp | SM (G657.A2) |
| Außenmantel | PE HD |
| Kabeltype | Aerial |

Abmessungsmerkmale

| | |
|-----------------------------|----------|
| Nettogewicht ca. | 20 kg/km |
| Kabeldurchmesser | 5.0 mm |
| Anzahl der optischen Fasern | 1 |

Mechanische Eigenschaften

| | |
|----------------------------------|----------|
| Bruchfestigkeit | Max 2 kN |
| Querdruckwiderstand (EN 187 000) | 20 kg/cm |
| Max. Zuglast | 800 N |

Übertragungseigenschaften

| | |
|-------------------------------|---------|
| Insertion Loss, maximum, dB | 0.25 dB |
| Insertion loss, typical value | 0.12 dB |
| Rückflussdämpfung, max. dB | 65 dB |

Anwendungsmerkmale

| | |
|--------------------------------------|---------------------------------|
| Einsatzbereich | Customer connection |
| Umgebungstemperatur, Bereich | -5...50 (operation -20...70) °C |
| Art der Installation | Aerial - self-supporting |
| Minimaler Biegerradius - Installiert | R=10D without tension mm |
| Verpackung | PCDC packaging |

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