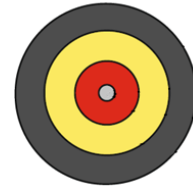


1f Pre-Terminated Drop Cable - Generic

1f Drop Cable G657A2

LC/APC to Bare
LC/APC to LC/APC



Product Description

A small, lightweight pre-connectorised cable which can be used for final FttX aerial, façade or UG Duct connections. The pre-connectorised cable reduces splicing costs for operators, simplifies installation and reduces the installation time.

Specification

The product shall meet the requirements contained in this document.

If the drop cable is pre-connectorised at both ends, any excess cable can be stored in the customer CCE. Alternatively, excess cable can be trimmed to length and spliced.

- Outer diameter 3.4mm
- Suitable for installation outdoors
- For suspension – self-supporting
- Light
- Flexible
- Suspension range - max 80m
- Completely dielectric
- Single fibre
- Dry – no gel
- UV resistant outer sheath
- Expected lifetime of 20 years

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1f Pre-Terminated Drop Cable - Generic

Product Codes

Overhead cable pre-connectorized at one.

| Description | Emtelle Code |
|---|--------------|
| 1F G657A2 AERIAL DROP CABLE LC/APC - BARE 35M | T.B.C |
| 1F G657A2 AERIAL DROP CABLE LC/APC - BARE 45M | T.B.C |
| 1F G657A2 AERIAL DROP CABLE LC/APC - BARE 55M | T.B.C |
| 1F G657A2 AERIAL DROP CABLE LC/APC - BARE 65M | T.B.C |
| 1F G657A2 AERIAL DROP CABLE LC/APC - BARE 75M | T.B.C |
| 1F G657A2 AERIAL DROP CABLE LC/APC - BARE 85M | T.B.C |

Overhead cable pre-connectorized at both ends.

| Description | Emtelle Code |
|---|--------------|
| 1F G657A2 AERIAL DROP CABLE LC/APC - LC/APC 35M | T.B.C |
| 1F G657A2 AERIAL DROP CABLE LC/APC - LC/APC 45M | T.B.C |
| 1F G657A2 AERIAL DROP CABLE LC/APC - LC/APC 55M | T.B.C |
| 1F G657A2 AERIAL DROP CABLE LC/APC - LC/APC 65M | T.B.C |
| 1F G657A2 AERIAL DROP CABLE LC/APC - LC/APC 75M | T.B.C |
| 1F G657A2 AERIAL DROP CABLE LC/APC - LC/APC 85M | T.B.C |

Suitable Anchoring Clamps

| Description | Emtelle Code |
|----------------------|--------------|
| Anchoring Clamp (x1) | 75467 |

Additional Cable

| Description | Emtelle Code |
|----------------------------|--------------|
| 3.4mm 1f G657A2 Drop Cable | 75495P |

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1f Pre-Terminated Drop Cable - Generic

Cable Specification

Properties

| Parameters | Specification | |
|--|---|---------|
| Number of fibres | 1 | |
| External diameter (mm) | 3.4±0.2 | |
| Weight (g/m) | 12.6 | |
| Fibre type | ITU-T G657A2 | |
| Fibre Supplier | Corning | |
| Fibre Brand Name or data sheet reference | Clear Curve LBL | |
| Cable Attenuation | Max 0.35 dB/km at 1310nm Max 0.30 dB/km at 1550nm | |
| Length tolerance | 10m to 75m lengths -0m/+0.5m >75m to 500m lengths -0m/+1m >500m to 700m lengths -0m/+2m | |
| Min cable bending radius (mm) | Static: 10 x OD Dynamic: 20 x OD | |
| Macrobending Performance (individual stripped out fibre) | 7.5 mm radius (1 turn) ≤ 0.40 dB at 1550 nm ≤ 0.8 dB at 1625 nm | |
| Strength Member | Aramid yarns | |
| Working Life | 20 years | |
| Maximum installation Span (m) | 80 | |
| Temperature | Operation (°C) | -10/+50 |
| | Installation (°C) | -10/+50 |
| | Storage (°C) | -50/+50 |
| Max pull tension (N) | 1000 | |
| Cable breaking load (N) | <2000 | |

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1f Pre-Terminated Drop Cable - Generic

Mechanical Performance (all optical measurements at 1550 nm)

| Test | Test Method | Test Parameters | Product Specification |
|--------------------------------|-------------------------------------|---------------------------|--|
| Tensile Performance Short Term | EN 187000 A1/501 IEC60 794-12-E1 | 600N | Fibre strain $\leq 0.66\%$ at max. force Attenuation increment $\leq 0.05\text{dB}$ |
| Tensile Performance Long Term | EN 187000 A1/501 IEC60 794-12-E1 | 300N | Fibre strain $\leq 0.33\%$ at max. force Attenuation increment $\leq 0.05\text{dB}$ |
| Repeat Bend | IEC 60794-1-2-E6 | 20 Cycles, 20N | Attenuation $\leq 0.05\text{dB}$ increment after test. |
| Crush | IEC 60794-1-2-E3 | 100 mm plate, 500N, 1 min | $\leq 0.05\text{dB}$ increment after test. |
| Impact | IEC 60794-1-2-E4 | 1N, 1m 3 times | $\leq 0.05\text{dB}$ increment after test. |

Environmental Performance (all optical measurements at 1310nm and 1550nm)

| Test | Test Method | Test Parameters | Product Specification |
|-------------------|-----------------------------|---------------------|---|
| Temperature Cycle | IEC 60794-1-2-F1 (2 cycles) | +20°C, -10°C, +50°C | $\leq 0.1\text{dB/km}$ change during and after test |

Sag Data

| Span (m) | Installation | | | Wind 61mph Ice 0mm Temperature 20°C | | Wind 0mph Ice 5mm Temperature -20°C | |
|----------|--------------|-----------------|-------------|---|-------------|---|-------------|
| | Sag (m) | Install Sag (%) | Tension (N) | Sag (m) | Tension (N) | Sag (m) | Tension (N) |
| 40 | 0.408 | 1.02 | 65 | 1.162 | 392 | 0.990 | 290 |
| 50 | 0.487 | 0.97 | 85 | 1.540 | 463 | 1.304 | 344 |
| 60 | 0.596 | 0.99 | 100 | 1.952 | 526 | 1.652 | 391 |
| 70 | 0.706 | 1.01 | 115 | 2.388 | 586 | 2.015 | 437 |
| 80 | 0.786 | 0.98 | 135 | 2.827 | 647 | 2.378 | 483 |

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LC/APC Connector Specification

| Parameter | Performance |
|--------------------------|--------------------|
| Specification- | IEC 61754 |
| Test Methods | IEC 61300 |
| Connector Type | LC APC |
| Polished Angle | 8° |
| Insertion Grade | Grade B |
| Insertion Loss (Max)* | ≤0.25dB |
| Insertion Loss (Mean)** | <0.12dB |
| Repeatability/Durability | ±0.2dB/500 matings |
| Return Loss | >60dB |
| Visual | Standard |
| Temperature in operation | -40°C to +75°C |
| Temperature in storage | -55°C to +85°C |
| Retention | ≥ 10N |

*When tested against a master cord

**Random mating test IEC 61300-3-34

Drop Cable Clamps

Anchoring clamp



| Parameters | Specification |
|-------------------------------|----------------------------|
| Material | UV resistant thermoplastic |
| Weight (kg) | 0.03 |
| Supply quantity | 100 |
| Cable installation range (mm) | 3-4 |
| Dimensions | 30mm W x 70mm H x 130mm L |

Packaging

Packaged on compact, environmentally friendly reels suitable for use on standard braked drop wire dispensers.

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