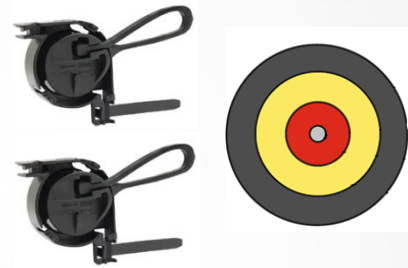


1f Drop Cable Kit G657A2 LC/APC to LC/APC



Product Description

A small, lightweight pre-connectorised cable which can be used for final FttX aerial or façade 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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Product Codes

Drop Cable Kit – Cable pre-connectorized at both ends, supplied with 2x Anchoring Clamps

Description	Emtelle Code
1F G657A2 AERIAL DROP CABLE LC/APC-LC/APC 2xA-CLAMP 10M	75496
1F G657A2 AERIAL DROP CABLE LC/APC-LC/APC 2xA-CLAMP 20M	75497
1F G657A2 AERIAL DROP CABLE LC/APC-LC/APC 2xA-CLAMP 30M	75498
1F G657A2 AERIAL DROP CABLE LC/APC-LC/APC 2xA-CLAMP 40M	75499
1F G657A2 AERIAL DROP CABLE LC/APC-LC/APC 2xA-CLAMP 50M	75500
1F G657A2 AERIAL DROP CABLE LC/APC-LC/APC 2xA-CLAMP 60M	75501
1F G657A2 AERIAL DROP CABLE LC/APC-LC/APC 2xA-CLAMP 70M	75502
1F G657A2 AERIAL DROP CABLE LC/APC-LC/APC 2xA-CLAMP 80M	75503

Clamp

Description	Emtelle Code
Anchoring Clamp	75467

Cable

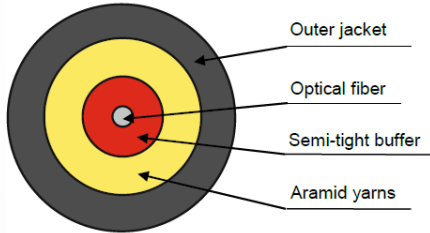
Description	Emtelle Code
3.4mm 1f G657A2 Drop Cable	75495P

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Cable Specification

Properties

Parameters	Specification	
Structure		
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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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

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