

# Fibre Optic Cabling

## Ultralightweight Aerial Drop Cable 36F/48F



Product Information	
Single Mode Optical Fibre	Sterlite Fibre ITU.T - G.652.D Sterlite Fibre ITU.T - G.657.A1 Sterlite Fibre ITU.T - G.652.A2
G.657.A2 Maximum Cabled Fibre Attenuation dB/Km	1310nm : 0.35, 1550nm: 0.21 & 1625nm : 0.24
G.657.A 1 Maximum Cabled Fibre Attenuation dB/Km	1310nm : 0.36; 1550nm : 0.22 & 1625nm : 0.27
PmDq	<0.1 ps/√km
Filling Gel	Thixotropic gel to prevent water ingress inside microbundle
Microbundle	Easy strippable buffer tube
Dummy Element	If required
Water Tightness	Water swellable tape applied longitudinally over microbundle
Embedded Strength Member	2 Nos Brass coated steel wire, 180° apart. Diameter 0.32mm (Nom) *3 required
Peripheral Strength Member	Aramid Yarns if required
Stripe Marking	2 Nos Yellow Stripe over outer sheath. 90° to Steel wire 1.25 + 0.25 mm wide
Outer Sheath	UV proof Black Polyethylene

Mechanical	
Breaking Load*	1350 N - 1800 N
Installation Load	150N
Min. Bending Radius	12D
Crush Resistance	2000N/100 x 100mm
Impact strength	10Nm
Torsion	± 360°, 100N
Water Penetration	1m head, 3m samples, 24 hrs
*Note : At maximum environmental loading Fibre strain shall be < 0.80%.	
All tests shall be carried out as per IEC 60794-1-21/22 standards. Change in attenuation after and before shall be <0.05dB/km	

Installation Loading Conditions	
Span Length	55 meter (Exceptional 68m)
Sag %	1.8%
Environmental Loading	Wind Speed 97Km/hr, ice load 0mm (Wind Speed 0, ice 5mm)
High Voltage Test	15kVrms, 5 mins
Minimum distance shall be 1.0 meter, between Optical Fibre Cable & 11kV Transmission Line.	

# Fibre Optic Cabling

## Ultralightweight Aerial Drop Cable 36F/48F

Cable Construction							
Fibre Count	Fibres Per Tube	Tubes	Dummy Element	Colour of Loose Tubes In Sequence	Fibre Colour	Diameter of Cable	Weight of Cable (+/- 10%)
	Numbers	Numbers	Numbers				
36	12	3	0	BL, OR, GR	BL, OR, GR, BR, SL, WH,	7.1 +/- 0.2mm	43
48	12	4	0	BL, OR, GR, BR	RD, BK, YL, VI, PK, AQ	7.1 +/- 0.2mm	45

Printing Details	
Cable Printing details (White - Hot Foil)	CONNECTIX Fibre Count F Aerial LASER SYMBOL TELEPHONE SYMBOL YEAR OF MANUFACTURE LENGTH CODE METER MARKING
The accuracy of marking shall be + 1%. Occasional loss of printing & remarking shall be as per Bell core GR 20 and this supercedes the earlier markings.	

Outer Sheath Colour: Black

### Standard Length Details

Cable length (meter) 4000 + 5 %  
 Order Tolerance: ± 5 %  
 Short Lengths : MAX 5 %, Customer Approval.

Ordering Information	
Product Description	Part Number
36F Ultralightweight Overhead Drop Cable G.652.D Singlemode Optical Fibre (4x 12) Outdoor PE, OD 7.1mm	002-005-165-36
36F Ultralightweight Overhead Drop Cable G.657.A1 Singlemode Optical Fibre (4 x 12) Outdoor PE, OD 7.1mm	002-005-166-36
36F Ultralightweight Overhead Drop Cable G.657.A2 Singlemode Optical Fibre (4 x 12) Outdoor PE, OD 7.1mm	002-005-167-36

Ordering Information	
Product Description	Part Number
48F Ultralightweight Overhead Drop Cable G.652.D Singlemode Optical Fibre (4x 12) Outdoor PE, OD 7.1mm	002-005-165-48
48F Ultralightweight Overhead Drop Cable G.657.A1 Singlemode Optical Fibre (4 x 12) Outdoor PE, OD 7.1mm	002-005-166-48
48F Ultralightweight Overhead Drop Cable G.657.A2 Singlemode Optical Fibre (4 x 12) Outdoor PE, OD 7.1mm	002-005-167-48