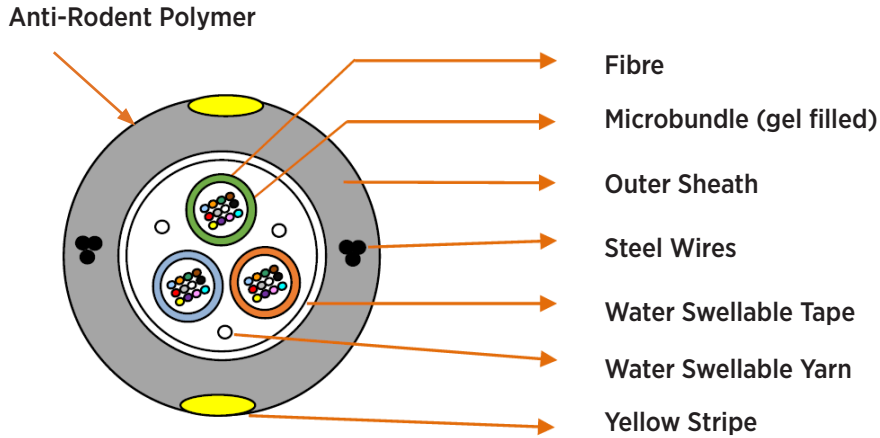


Fibre Optic Cabling

Ultralightweight Aerial/Underground Anti-Rodent Cable



Cross section cable construction of 36-fibre

Cable Construction									
Parameter	Dimensions/Layout							Type	
Number of Fibres	2	4	8	12	24	36	48	Glass Fibre	
Number of Fibres per Micromodule	2	4	8	12				Easy Strippable Buffer Tube	
Number of Fillers	2			1		0			
Embedding Strength Member	3 x 0.32mm							Brass Coated Steel Wire	
Moisture Barrier								Water Blocking Yarn & Water Swellable Tape	
Outer Sheath	1.6mm (Nominal)							HDPE UV Black	
Strip Marking Width	1.25mm (Nominal)							HDPE Yellow	
Overall Cable Diameter	7.0 ± 0.3mm								
Cable Weight	40.0kg/km (Nominal)								

Colour Coding												
Fibre Colour	1	2	3	4	5	6	7	8	9	10	11	12
EIA/TIA 598	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk	Yl	Vi	Pk	Aq

Tube Colour	1	2	3	4
EIA/TIA 598	Bl	Or	Gr	Br

Fibre Optic Cabling

Ultralightweight Aerial/Underground Anti-Rodent Cable

Mechanical Characteristics		
Tensile Break Load	1900 N	
Tensile Strength	1250 N	IEC 60794-2-E1
Crush Resistance	2000 N	IEC 60794-1-E3
Minimum Bending Radius	70mm	IEC 60794-1-21-11

Voltage Test	11 Kv	If installed along power line minimum vertical distance of 1.8 M should be maintained
Resistance to wind/ice	Cable shall withstand 97 kph wind, no ice. 80 kph wind + 5mm ice. 0 kph wind, + 10mm ice. without appreciable sag	

Environmental Characteristics		
Installation	-10°C to +60°C	IEC 60794-1-22-F1
Operation	-30°C to +70°C	
Storage	-40°C to +70°C	

Fibre Characteristics		G657A1		
Optical				
Attenuation	1310 nm		≤ 0.35 dB/km	
	1550 nm		≤ 0.21 dB/km	
	1625 nm		≤ 0.23 dB/km	
Chromatic Dispersion	1285 - 1330 nm		≤ 3.5 ps/nm.km	
	1550 nm		≤ 18.0 ps/nm.km	
	1565 - 1625 nm		≤ 22.0 ps/nm.km	
Fibre Cut-off Wavelength			≤ 1260 nm	
Zero Dispersion Wavelength			1302 - 1324 nm	
Zero Dispersion Slope			≤ 0.092 ps/nm ² x km	
Polarisation mode dispersion	Fibre		≤ 0.1 ps/km	
	Link Design Value		≤ 0.04 ps/km	
	100 turns	φ 50 mm	1310 nm	≤ 0.05 dB
			1550 nm	≤ 0.05 dB
100 turn	φ 60 mm	1625 nm	≤ 0.05 dB	
Proof Stress Level			1.0% (100 kpsi)	
Geometrical				
Mode Field Diameter	1310 nm		9.2 ± 0.4 μm	
	1550 nm		10.4 ± 0.5 μm	
Core - Cladding Concentricity Error			≤ 0.5 μm	
Cladding Diameter			125 ± 0.7 μm	
Cladding Non-Circularity			≤ 1%	
Coating - Cladding Concentricity Error			≤ 12 μm	
Primary Coating Diameter			242 ± 5 μm	
Primary Coating Material	(Coloured)		UV Cured Acrylate	
Fibre Curl	Radius		≥ 4m	

Fibre Optic Cabling

Ultralightweight Aerial/Underground Anti-Rodent Cable

Printing Details

Cable printing details	Connectix ULW-001-001-XX - PIA RP - G657A1 XXF" "xxxx" Mts
------------------------	--

Outer Sheath Colour: Black

Cable drums 4km or free cut to length service available.

Ordering Information

Product Description	Part Number
Connectix ULW Singlemode G.657.A1 4 fibre OH/UG Anti-Rodent Cable Black	ULW-001-001-04
Connectix ULW Singlemode G.657.A1 12 fibre OH/UG Anti-Rodent Cable Black	ULW-001-001-12
Connectix ULW Singlemode G.657.A1 24 fibre OH/UG Anti-Rodent Cable Black	ULW-001-001-24
Connectix ULW Singlemode G.657.A1 36 fibre OH/UG Anti-Rodent Cable Black	ULW-001-001-36
Connectix ULW Singlemode G.657.A1 48 fibre OH/UG Anti-Rodent Cable Black	ULW-001-001-48