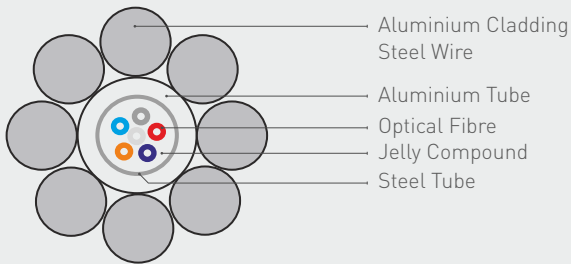
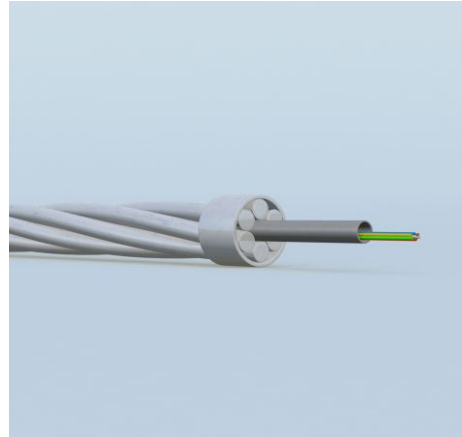


OPGW COMPOSITE OPTICAL CABLE

Fibre Optic Overhead Group Wire Optical Ground Wire (OPGW) is used in power utility for dual function as a ground or static wire and a path for transmission of voice, video or data signals through optical fibres allowing for fast, reliable and cost effective installations.

Fibres are placed in a central stainless steel tube with water-resistant jelly filling; it is inserted into an aluminium pipe which provided added crush protection and increasing the conductivity. Over it one or two layers of aluminium coated steel wire or aluminium wire or aluminium alloy wire are stranded, stranded wires are selected to optimize mechanical and electrical properties of cable. They have high tensile load, long span and high crush resistance. Their small diameter and light weight minimize load to the tower.



COMPLIANCE

- ITU-T G652.B OS1
- ITU-T G652.D OS2
- ITU-T G651.1 OM1 OM2 OM3 Om4
- IEC60793-2-10 type A 1a.1/A 1b OM1/OM2
- IEC60793-2-10 type A 1a.2 OM3
- IEC60793-2-10 type A 1a.3 Om4
- ISO/IEC 11801, ISO/IEC 24702
- ANSI/TIA/EIA 568.3-D
- RoHS Compliant Directive 2002/95/EC

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Bend Radius (Short Term)	20D
Bend Radius (Long Term)	10D
Operating Temperature	-20 °C to +60 °C
Storage Temperature	-40 °C to +85 °C

OPTICAL CHARACTERISTICS

Fibre Type	Max. Attenuation (dB/Km)				Min. Overfill Launch Bandwidth (Mhz* Km)		Min. Gigabit Ethernet Link Distance (M)		
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	Gigabit		10Gigabit
							850nm	1300nm	850nm
OM1 62.5/125µm	≤2.7	≤0.6	-	-	≥200	≥600	275	550	-
OM2 50/125µm	≤2.5	≤0.7	-	-	≥500	≥500	550	550	-
OM3 50/125µm	≤2.3	≤0.6	-	-	≥1500	≥500	1000	600	300
OM4 50/125µm	≤2.3	≤0.6	-	-	≥3500	≥500	1000	600	550
OS1 9/125µm	-	-	≤0.34	≤0.20	-	-	-	-	-
OS1 9/125µm	-	-	≤0.34	≤0.24	-	-	-	-	-

OPGW COMPOSITE OPTICAL CABLE

ANSI/TIA/EIA-598-B STANDARD FIBRE COLOUR CODE

Fibre Number	Fibre Colour		
Fibre 1	Blue	Fibre 1	Red
Fibre 2	Orange	Fibre 1	Black
Fibre 3	Green	Fibre 1	Yellow
Fibre 4	Brown	Fibre 1	Violet
Fibre 5	Slate	Fibre 1	Rose
Fibre 6	White	Fibre 1	Aqua

Fibre 13 and higher the colour code is repeated with added black stripe or dash

Note: Fibre Tube Colour will be followed with same order

ORDERING INFORMATION

Part Number	Fibre Count	Outer Diameter (mm)	Weight (Kg/Km)	Breaking Strength (KN)	20°C DC Resistance (Ohm/Km)	Short Circuit Current (KA/sec)
3117-41006FXXCL	6	10.0	470	67	1.598	4.2
3117-41012FXXCL	12	10.0	490	67	1.598	4.2
3117-41016FXXCL	16	11.0	525	81	1.321	5.1
3117-41020FXXCL	20	12.0	561	96	1.11	6.1
3117-41024FXXCL	24	14.0	480	56	0.341	11.2
3117-41036FXXCL	36	15.0	649	64	0.297	12.8
3117-41040FXXCL	40	16.0	687	73	0.261	14.6
3117-41048FXXCL	48	17.0	793	82	0.231	16.5

ORDERING GUIDE

Cable Type	Jacket	Fibre/Tube	Fibre Count	Fibre Type(FXX)	Jacket Colour (CL)
3117	1=PVC 2=LSZH 3=PE 4=ACSR	1=12 Fibre/T 2=08 Fibre/T 3=06 Fibre/T 4=04 Fibre/T	No. of Fibre	OM1=62.5/125 OM1 OM2=50/125 OM2 OM3=50/125 OM3 OM4=50/125 OM4 OS1=9/125 OS1 OS2=9/125 OS2	As noted in Colour Code Chart

Note: ACS denotes aluminium coated steel & ACSR denotes aluminium coated steel wire