



GridLink Optical Cables for Smart Grid Communication Systems

Low Smoke Zero Halogen • Unarmoured Cable • NGTS 3.8.7 Style



Document Information

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Notes / Changelog First Release

Properties & Standards

Standards
 NGTS 3.8.7 Style
 TIA/EIA 598
 IEC 60794-1-21
 IEC 60794-1-22

Cable Construction

Fibre Optics

OM1 or OM3 Fibres

Containment

Fibres Contained in Gel Filled Loose Tubes

Layup

6 Tubes (Populated/Unpopulated) Laid up with Fillers Around Central Element and Surrounded by Reinforced Waterblocking Fibreglass Yarn Strength Members

Inner Sheath

Extruded LSZH (Low Smoke Zero Halogen)

Strength Members

Waterblocking Fibreglass Yarn Strength Members

Outer Sheath

Extruded LSZH (Low Smoke Zero Halogen)

Temperature

Operating Temperature Range -30 to +70 °C

Physical

Minimum Fixed Bend Radius	15	x Ø
Minimum Installation Bend Radius	20	x Ø
Maximum Impact	20	J
Maximum Crush	5000	N/10cm
Maximum Installation Tensile Load	4000	N
Maximum Permanent Tensile Load	2700	N

Fire Performance

Flame Retardance	IEC 60332-1
Flame Retardance	IEC 60332-3
Halogen Gas Content	IEC 60754-1
Gas Acidity	IEC 60754-2
Smoke Emission	IEC 61034-2
Minimum CPR Rating	Cca s1b d2 a2

Colours & Identification

Fibre Colours

Red
 Green
 Blue
 Yellow
 Grey
 Violet
 Brown
 Orange
 White
 Pink
 Black
 Turquoise

Tube Colours

Red
 Green
 Natural
 Black (Passive Tubes)

Outer Sheath Colour

Black

Colours Repeated with Black Stripe Marker

Construction & Dimensions

No. of Fibres	Populated Tubes / Fibres	Outer Ø (mm)
8	2 x 4	14.5
12	3 x 4	14.5
16	4 x 4	14.5
24	4 x 6	14.5