



**Part Number: ZW13TMF01**

1T1.5mm<sup>2</sup> MGT/XLP/OS/LSZH/GSWA/LSZH 500 V

**Product Description**

Fire Resistant Instrumentation Cable, 1 Triad 1.5mm<sup>2</sup> Bare Copper, Mica Glass Tape (MGT), XLP Insulation, Overall foil shield with drain wire, LSZH Inner Jacket, Galvanized Steel Wire Armor, LSZH Outer Jacket, BS EN 50288-7, BS 6387 CWZ

**Technical Specifications**

**Physical Characteristics (Overall)**

**Conductor**

Area	Material	No. of Triads
1.5 mm <sup>2</sup>	BC-Bare Copper (Stranded)	1

**Fire Protection Barrier**

Type	Material	Coverage [%]
Tape	Mica Glass Tape (MGT)	100 %

**Insulation**

Material
XLP

**Color Chart**

No. of Triads	Color
1	White, Black & Red

**Overall Shield or Un-shield Material**

Type	Material	Drain Wire Material	Coverage [%]
Tape	Polyester Tape		100 %
Shield Tape	Aluminium Mylar Tape	Tinned Copper	100 %

**Inner Jacket Material**

Material	Nominal Diameter
LSZH	10 mm

**Armour Material**

Type	Material	Nominal Diameter
Armour	Galvanized Steel wire	11.8 mm

**Outer Jacket Material**

Material	Nominal Diameter
LSZH	14.6 mm

## Electrical Characteristics

### Conductor DCR

Nominal Conductor DCR @ 20 °C
13.57 Ohm/km

### Capacitance

Nom. Capacitance Core to Core
< 150 nF/km

### Inductance

Nominal Inductance
<= 1 mH/km

### Inductance to Resistance Ratio L/R

Max. Inductance to Resistance Ratio L/R
< 40 $\mu$ H/Ohm

## Voltage

Voltage Rating	500 V
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## Temperature Range

Operating Temp. range	-30 °C To + 90 °C (EN)
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## Mechanical Characteristics

Bulk Cable Weight	382 kg/km
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## Standards

Cable Standards	EN 50288-7
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## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV)	Yes
EU Directive 2003/96/EC (BFR)	Yes
EU Directive 2011/65/EU (ROHS II)	Yes
EU Directive 2012/19/EU (WEEE)	Yes
EU Directive 2015/863/EU	Yes
EU CE Mark	Yes
CA Prop 65 (CJ for Wire and Cable)	Yes
MII Order 39 (China RoHS)	Yes

## Suitability

Suitability - UV Resistance	Yes (UL 1581)
Suitability - Oil Resistance	Yes

### Flammability, LSZH, Toxicity Testing

ISO/IEC Flammability	IEC 60332-3-24 , IEC 60332-1-2
Fire Resistant Rating	BS 6387 CWZ
Smoke Density as per IEC 61034-2	<= 60 %
Halogen Acid Gas as per IEC 60754-1	<= 0.5 %
pH Content as per IEC 60754-2	>= 4.3
Conductivity as per IEC 60754-2	<= 10 $\mu$ S/mm

### History

Update and Revision	Revision number: 0 Revision Date: 12-3-2020
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