



- instrument cables to be twisted pairs. please dd in offer

## TECHNICAL DATA SHEET

### COMPLIANCE

Rated Voltage **300/500 V**  
 Applicable Standard(s) **EN 50288-7**

Instrument Cable  
**TICU/XLPE/OSCR/LSHF/SWA/LSHF**  
**1x2x1.5 RM mm2**

### CONSTRUCTION

Conductor Type / Material / Size **Stranded Round (Class 2) / Tinned Copper / 1.5 mm2**  
 Insulation Material / Thickness **XLPE / 0.6 mm**  
 Core Colors **Black-White**  
 Overall Screen **Polyester Tape + Tinned Copper Drain Wire / 0.5 mm2 + Aluminium Polyester Tape + Polyester Tape**  
 Inner Sheath Material / Thickness / O.D **Low Smoke Halogen Free/ 0.9 mm/ 7.7 mm**  
 Metallic Armour Material / Wire Dia. / O.D **Galvanized Steel Wire / 0.9 mm / 9.5 mm**  
 Outer Sheath Material / Thick. (Nom.) / Color **Low Smoke Halogen Free / 1.4 mm / Blue**  
 Overall Diameter (Approx.) **12.5 mm ± 5%**  
 Cable Weight (Approx.) **286 kg/km ± 5%**

### ELECTRICAL PERFORMANCE

Maximum DC Resistance at 20°C	<b>12.2 Ω/km</b>
Max. Mutual Capacitance	<b>150 nF/km</b>
Max Inductance to Resistance Ratio (L/R)	<b>40 μH/Ω</b>
Max. Capacitance Unbalance	<b>500 pf /500 m</b>
Min. Insulation Resistance	<b>1000 MΩ.km</b>

### SPECIAL PERFORMANCE

Flame Retardant	<b>IEC 60332-1-2</b>
Fire Retardant	<b>IEC 60332-3-24 (Cat.C)</b>
Smoke Density	<b>IEC 61034-1,2 (Light Transmittance Min. 60%)</b>
Halogen Acid Gas	<b>IEC 60754-1 ( Max. 0.5% )</b>
Oxygen Index	<b>ASTM D2863 ( Min. 32% )</b>
UV Resistant	<b>UL 1581 section 1200</b>

### INSTALLATION GUIDELINE

Min Temperature During Installation	<b>-5°C</b>
Max. Pulling Tension	<b>150 N</b>
Min. Bending Radius at Min. Temperature	<b>150 mm</b>

### PACKING DRUM DETAILS

Length	<b>As Per Request</b>
Material	<b>Wooden or Metal Drum</b>

### MARKING

HALOGEN FREE INSTRUMENT CABLE 1x2x1.5 SQMM 300/500 V EN 50288-7 MOGHAN WIRE & CABLE CO. MADE IN IRAN. YEAR. METER

Designed By : **M.Nasiri**

Approved By : **A.Nikounam**

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- please confirm that this cable wrapped with **Polyester Tape (Wrapping below inner sheath)**. please update offer accordingly.  
 - instrument cables to be twisted pairs. please dd in offer

## TECHNICAL DATA SHEET

### COMPLIANCE

Rated Voltage **300/500 V**  
 Applicable Standard(s) **EN 50288-7**

Instrument Cable  
**TICU/XLPE/LSHF/SWA/LSHF**  
**1x2x2.5 RM mm2**

### CONSTRUCTION

Conductor Type / Material / Size **Stranded Round (Class 2) / Tinned Copper / 2.5 mm2**  
 Insulation Material / Thickness **XLPE / 0.7 mm**  
 Core Colors **Black-White**  
 Inner Sheath Material / Thickness / O.D **Low Smoke Halogen Free/ 1 mm/ 8.9 mm**  
 Metallic Armour Material / Wire Dia. / O.D **Galvanized Steel Wire / 0.9 mm / 10.7 mm**  
 Outer Sheath Material / Thick. (Nom.) / Color **Low Smoke Halogen Free / 1.4 mm / Grey**  
 Overall Diameter (Approx.) **13.7 mm ± 5%**  
 Cable Weight (Approx.) **337 kg/km ± 5%**

### ELECTRICAL PERFORMANCE

Maximum DC Resistance at 20°C	7.56 Ω/km
Max. Mutual Capacitance	150 nF/km
Max Inductance to Resistance Ratio (L/R)	60 μH/Ω
Max. Capacitance Unbalance	500 pf /500 m
Min. Insulation Resistance	1000 MΩ.km

### SPECIAL PERFORMANCE

Flame Retardant	IEC 60332-1-2
Fire Retardant	IEC 60332-3-24 (Cat.C)
Smoke Density	IEC 61034-1,2 (Light Transmittance Min. 60%)
Halogen Acid Gas	IEC 60754-1 ( Max. 0.5% )
Oxygen Index	ASTM D2863 ( Min. 32% )
UV Resistant	UL 1581 section 1200

### INSTALLATION GUIDELINE

Min Temperature During Installation	-5°C
Max. Pulling Tension	250 N
Min. Bending Radius at Min. Temperature	164 mm

### PACKING DRUM DETAILS

Length	As Per Request
Material	Wooden or Metal Drum

### MARKING

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