

## 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  
 Insulation Material / Thickness  
 Core Colors  
 Overall Screen

**Stranded Round (Class 2) / Tinned Copper / 1.5 mm2**

**XLPE / 0.6 mm ( Twisted Pair )**

**Black-White**

**Polyester Tape + Tinned Copper Drain Wire / 0.5 mm2 + Aluminium**

**Polyester Tape + Polyester Tape**

**Low Smoke Halogen Free/ 0.9 mm/ 7.7 mm**

**Galvanized Steel Wire / 0.9 mm / 9.5 mm**

**Low Smoke Halogen Free / 1.4 mm / Blue**

**12.5 mm ± 5%**

**286 kg/km ± 5%**

Inner Sheath Material / Thickness / O.D  
 Metallic Armour Material / Wire Dia. / O.D  
 Outer Sheath Material / Thick. (Nom.) / Color  
 Overall Diameter (Approx.)  
 Cable Weight (Approx.)

### ELECTRICAL PERFORMANCE

Maximum DC Resistance at 20°C	12.2 Ω/km
Max. Mutual Capacitance	150 nF/km
Max Inductance to Resistance Ratio (L/R)	40 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	150 N
Min. Bending Radius at Min. Temperature	150 mm

### PACKING DRUM DETAILS

Length	As Per Request
Material	Wooden or Metal Drum

### 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**

## TECHNICAL DATA SHEET

### COMPLIANCE

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

### Instrument Cable

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

### CONSTRUCTION

Conductor Type / Material / Size  
 Insulation Material / Thickness  
 Core Colors

**Stranded Round (Class 2) / Tinned Copper / 2.5 mm2**  
**XLPE / 0.7 mm ( Twisted Pair )**  
**Black-White**

### Wrapping Material

Inner Sheath Material / Thickness / O.D  
 Metallic Armour Material / Wire Dia. / O.D  
 Outer Sheath Material / Thick. (Nom.) / Color  
 Overall Diameter (Approx.)  
 Cable Weight (Approx.)

**Polyester Tape**  
**Low Smoke Halogen Free/ 1 mm/ 8.9 mm**  
**Galvanized Steel Wire / 0.9 mm / 10.7 mm**  
**Low Smoke Halogen Free / 1.4 mm / Grey**  
**13.7 mm ± 5%**  
**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

HALOGEN FREE INSTRUMENT CABLE 1x2x2.5 SQMM 300/500 V EN 50288-7 MOGHAN WIRE & CABLE CO. MADE IN IRAN. YEAR. METER

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