

## 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

### Polyester Tape

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.)

**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

Designed By : M.Nasiri

Approved By : A.Nikounam

[www.moghancableco.com](http://www.moghancableco.com)