

TECHNICAL DATA SHEET

COMPLIANCE

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

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

CONSTRUCTION

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

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.)

Stranded Round (Class 2) / Plain Annealed Copper / 1.5 mm2
XLPE / 0.6 mm
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%
295 kg/km ± 5%

ELECTRICAL PERFORMANCE

Maximum DC Resistance at 20°C	12.1 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 : Sh.Ahmadi

Approved By : A.Nikounam

TECHNICAL DATA SHEET

COMPLIANCE

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

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

CONSTRUCTION

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

Stranded Round (Class 2) / Plain Annealed Copper / 2.5 mm2
XLPE / 0.7 mm
Black-White
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	7.41 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 : S.Bigonah

Approved By : A.Nikounam