



- The outer sheath shall be resistant to abrasion, water, UV, and aliphatic hydrocarbons.
- Cables shall be low smoke halogen free
- Type test certificate for flame retardant (IEC60332) and other certificates applicable to these cables

TECHNICAL DATA SHEET

COMPLIANCE

Rated Voltage	300/500 V	Instrument Cable	CU/XLPE/OSCR/PVC/SWA/PVC
Applicable Standard(s)	EN 50288-7		1x2x1.5 RM mm2

CONSTRUCTION

Conductor Type / Material / Size	Stranded Round (Class 2) / Plain Annealed 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	PVC-ST2/ 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	PVC-ST2 / 1.4 mm / Blue
Overall Diameter (Approx.)	12.5 mm ± 5%
Cable Weight (Approx.)	301 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
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

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

Designed By : F.Rezaei

Approved By : A.Nikounam

www.moghancableco.com



MOGHAN Wire & Cable Co.

- The outer sheath shall be resistant to abrasion, water, UV, and aliphatic hydrocarbons.
- Cables shall be low smoke halogen free
- Type test certificate for flame retardant (IEC60332) and other certificates applicable to these cables

Quot. No : MO-53846-A0V0

Item No : 2

TECHNICAL DATA SHEET

COMPLIANCE

Rated Voltage	300/500 V	Instrument Cable
Applicable Standard(s)	EN 50288-7	CU/XLPE/PVC/SWA/PVC
		1x2x2.5 RM mm2

CONSTRUCTION

Conductor Type / Material / Size	Stranded Round (Class 2) / Plain Annealed Copper / 2.5 mm2
Insulation Material / Thickness	XLPE / 0.7 mm
Core Colors	Black-White
Inner Sheath Material / Thickness / O.D	PVC-ST2/ 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	PVC-ST2 / 1.4 mm / Grey
Overall Diameter (Approx.)	13.7 mm ± 5%
Cable Weight (Approx.)	359 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
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

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

Designed By : E.Joudaki

Approved By : A.Nikounam

www.moghancableco.com

TECHNICAL DATA SHEET

COMPLIANCE

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

Instrument Cable
CU/XLPE/ISCR/OSCR/PVC/SWA/PVC
2x2x1.5 RM mm2

CONSTRUCTION

Conductor Type / Material / Size	Stranded Round (Class 2) / Plain Annealed Copper / 1.5 mm2
Insulation Material / Thickness	XLPE / 0.6 mm
Core Colors	Black-White With Numbered Tapes
Individual Screen	Polyester Tape + Tinned Copper Drain Wire / 0.5 mm2 + Aluminium Polyester Tape + Polyester Tape
Overall Screen	Polyester Tape + Tinned Copper Drain Wire / 0.5 mm2 + Aluminium Polyester Tape + Polyester Tape
Inner Sheath Material / Thickness / O.D	PVC-ST2/ 1.1 mm/ 13 mm
Metallic Armour Material / Wire Dia. / O.D	Galvanized Steel Wire / 0.9 mm / 14.8 mm
Outer Sheath Material / Thick. (Nom.) / Color	PVC-ST2 / 1.5 mm / Grey
Overall Diameter (Approx.)	18 mm ± 5%
Cable Weight (Approx.)	516 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
UV Resistant	UL 1581 section 1200

INSTALLATION GUIDELINE

Min Temperature During Installation	-5°C
Max. Pulling Tension	300 N
Min. Bending Radius at Min. Temperature	216 mm

PACKING DRUM DETAILS

Length	As Per Request
Material	Wooden or Metal Drum

MARKING

INSTRUMENT CABLE 2x2x1.5 SQMM 300/500 V EN 50288-7 MOGHAN WIRE & CABLE CO. MADE IN IRAN. YEAR. METER

Designed By : F.Rezaei

Approved By : A.Nikounam