

METAL CABLE CO.
DATA SHEET

No.: MC – 001

Date : 1400.09.23

Instrument cable

Acc. EN 50288-7 , 500 V , frequency: 50Hz

Copper conductor/Mica glass tape/ XLPE insulated/ Ove. screen (PET+TDW+Alu. Foil+PET)/ LSFOH outer sheath
(CU/MGT/XLPE/OSCR/LSFOH)

Item	Specification	
1	Cable size	1x2x1.5+1x0.5mm ²
2	Conductor material & construction	Plain annealed copper class 2 (7x0.52 mm)
3	Flame barrier thickness & material	0.12 Mica glass tape
4	Insulation thickness & material	0.6 mm , XLPE, 90°C
5	Colour of insulation	Black , white
6	Max. lay of twist	100 mm
7	Drain wire cross-section & material	0.5 mm ² , tinned copper class 2
8	Screen (overall)	Polyester tape + tinned copper drain wire + Aluminum foil tape + polyester tape
9	Jacket thickness & material	LSFOH, 0.9 mm , 80°C , colour : RED
10	Overall diameter	9.0 mm
11	Max. dc conductor resistance at 20°C	12.1 Ω/km acc. IEC 60228
12	Max. ac conductor resistance at 70°C	15.48 Ω/km
13	Min. Insulation resistance at 20 °C	1000 MΩ . km
14	Max. mutual capacitance	150 pf/m
15	Max. L/R	40 μH/Ω
16	High voltage test	2.0 kvac or 3.0 kvdc for 1 min
17	Working temperature	-25 _ +90 °C
18	Bending radius	8 x D (Overall diameter cable)
19	Flame retardant test	Acc. IEC 60332-1
20	Flame retardant test	Acc. IEC 60332-3
21	Fire resistance test	Acc. IEC 60331
22	Smoke density test	Acc. IEC 61034
23	Halogen free test	Acc. IEC 60754-2
24	cable cutting (per drum)	Per request
25	Cable weight approx.	110 kg/km

Marking : METAL CABLE CO. EN 50288-7 CU/MGT/XLPE/OSCR/LSFOH 1x2x1.5+1x0.5 SQMM 500V MADE IN IRAN 1400 length

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DATA SHEET

No.: MC – 002

Date : 1400.09.23

Fire resistance instrument cable

Acc. EN 50288-7 , 500 V , frequency: 50Hz

Copper conductor/ Mica Glass Tape/ XLPE insulated/ Ove. screen (PET+TDW+Alu. Foil+PET)/ LSFOH outer sheath
CU/MGT/XLPE/OSCR/LSFOH

Item	Specification	
1	Cable size	1x3x1.5+1x0.5 mm ²
2	Conductor material & construction	Plain annealed stranded copper class 2 (7x0.52 mm)
3	flame barrier thickness & material	0.12 mica glass tape
4	Insulation thickness & material	0.6 mm , XLPE , 90°C
5	Colour of insulation	White, black, red
6	Max. lay of twist (triple)	100 mm
7	Drain wire cross-section & material	0.5 mm ² , tinned copper class 2
8	Screen (overall)	Polyester tape + tinned copper drain wire + Aluminum foil tape + polyester tape
9	Jacket thickness & material	1.0 mm , LSFOH , 90°C , colour : Red
10	Overall diameter approx.	9.7 mm
11	Max. dc conductor resistance at 20°C	12.10 Ω/km acc. IEC 60228
12	Max. ac conductor resistance at 90°C	15.48 Ω/km
13	Min. Insulation resistance at 20 °C	1000 MΩ . km
14	Max. mutual capacitance	150 pf/m
15	Max. L/R	40 μH/Ω
16	High voltage test	2.0 kvac or 3.0 kvdc for 1 min
17	Working temperature	-25 ___ +90 °C
18	Min. bending radius	8 x D (Overall diameter cable)
19	Flame retardant test	Acc. IEC 60332-1
20	Flame retardant test	Acc. IEC 60332-3
21	Fire resistance test	Acc. IEC 60331
22	Smoke density test	Acc. IEC 61034
23	Halogen free test	Acc. IEC 60754-2
24	cable length (per drum)	Per request
25	Cable weight approx.	135 kg/km

Marking : METAL CABLE CO. EN 50288-7 CU/MGT/XLPE/OSCR/LSFOH 1x3x1.5+1x0.5 SQMM 500 V
MADE IN IRAN 1400 length

Technical approval
METAL CABLE CO.
Sales Engineering Dept.

**METAL CABLE CO.
DATA SHEET**

No.: MC – 003

Date : 1400.09.23

Fire resistance instrument cable

Acc. EN 50288-7 , 500 V , frequency: 50Hz

Copper conductor/ Mica Glass Tape/ XLPE insulated/ PET/ LSFOH outer sheath
CU/MGT/XLPE/PET/LSFOH

Item	Specification
1	Cable size 3x1.5mm ²
2	Conductor material & construction Plain annealed stranded copper class 2 (7x0.52 mm)
3	flame barrier thickness & material 0.12 mica glass tape
4	Insulation thickness & material 0.6 mm , XLPE , 90°C
5	Colour of insulation White, black, red
8	Core wrapped PET
9	Jacket thickness & material 1.0 mm , LSFOH , 90°C , colour : Red
10	Overall diameter approx. 9.4 mm
11	Max. dc conductor resistance at 20°C 12.10 Ω/km acc. IEC 60228
12	Max. ac conductor resistance at 90°C 15.48 Ω/km
13	Min. Insulation resistance at 20 °C 1000 MΩ . km
16	High voltage test 2.0 kvac or 3.0 kvdc for 1 min
17	Working temperature -25 ___ +90 °C
18	Min. bending radius 8 x D (Overall diameter cable)
19	Flame retardant test Acc. IEC 60332-1
20	Flame retardant test Acc. IEC 60332-3
21	Fire resistance test Acc. IEC 60331
22	Smoke density test Acc. IEC 61034
23	Halogen free test Acc. IEC 60754-2
24	cable length (per drum) Per request
25	Cable weight approx. 130 kg/km

Marking : METAL CABLE CO. EN 50288-7 CU/MGT/XLPE/PET/LSFOH 1x3x1.5 SQMM 500 V MADE IN
IRAN 1400 length

Technical approval

**METAL CABLE CO.
Sales Engineering Dept.**

