

**INSTRUMENTATION CABLE****Cu, XLPE insulated, overall screen, LSZH bedding, SWA, LSZH outer sheath  
EN50288-7, IEC60332.3, IEC60754, IEC61034**

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**Type** **R-Cu/XLPE/OS/LSZH/SWA/LSZH 300/500V  
RE4OHM1FM1 300/500V****Conductor :** Stranded plain copper conductor according to IEC60228 cl.2 size 1,5sqmm ( 7x0,53 )  
Diam. 1,55 mm**Insulation :** Cross-linked XLPE extruded compound - Temperature range -20 + 90°C  
Thickness : 0,5 mm - Temperature laying -5 + 90°C**Laying up :** Twisted to core, Black numbered ( or to be agreed )**Overall screen** Applied over total assembly will be wrapped with polyester tape and shielded with Aluminum/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 size 0,5sqmm.**Bedding :** M1, Low Smoke Zero Halogen emission extruded compound  
Thickness : 1,0 mm**Armour :** SWA, Galvanized steel round wires**Outer sheath :** M1, Low Smoke Zero Halogen emission extruded compound  
Color : Black ( or to be agreed )**Marking :**

On the outer sheath " manufacturer's name year &amp; description cable " with ink-jet printer.

**Performance :**

- Conductor resistance 12,1 ohm/Km (+ 5% for multipair)
- Test voltage core to core 2 Kv
- Flame retardant according to IEC60332-3-24, CEI20-22/3
- Low smoke and halogen free as per IEC60754-2, CEI20-37/2
- Low smoke density emission IEC61034-1/2
- Hydrocarbon and UV resistant
- Cable for intrinsically safe application
- Inductance  $\leq$  0,90 mH/Km
- Capacitance  $\leq$  0,075 microF/Km
- This cable is suitable to be used in ATEX area following the EN60079-14 prescription

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#### **Technical data & Electrical properties at 20°C**

DESCRIPTION	Sheath thickness	Ext.Dia m mm	W. Kg/Km	Armour Diam.	Bending radius
R-Cu/XLPE/OS/LSZH/SWA/LSZH 500V 6X1,5	1,4	15,6	390	0,90	218
R-Cu/XLPE/OS/LSZH/SWA/LSZH 500V 10X1,5	1,6	18,5	600	0,90	259
R-Cu/XLPE/OS/LSZH/SWA/LSZH 500V 14X1,5	1,8	20	720	0,90	280

Weight and diameter are theoretical +/- 10%