

INSTRUMENTATION CABLE
Cu, XLPE insulated, individual and overall screen, LSZH bedding, SWA, LSZH outer sheath
IEC60332.1, IEC60332.3, EN50288-7

- Type** **R-Cu/XLPE/IS/OS/LSZH/SWA/LSZH 300/500V**
RE4XHOHM1FM1 300/500V
- Conductor :** Stranded plain copper conductor according to IEC60228 cl.2 size 1sqmm (7x0,43)
Diam. 1,3 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 pairs, Green - Black numbered (or to be agreed)
- Pair/Triad screen** Applied over the single pair/triad 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 1x0,82 size 0,82sqmm, over the screen will be placed a further Mylar tape.
- 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 1x0,82 size 0,82sqmm.
- 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 & description cable " with ink-jet printer.
- Performance :**
- Conductor resistance 18,1 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

 - Inductance \leq 0,90 mH/Km
 - Capacitance \leq 0,075 microF/Km

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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/IS/OS/LSZH/SWA/LSZH 2X2X1	1,6	17,4	440	0,90	244
R-CU/XLPE/IS/OS/LSZH/SWA/LSZH 5X2X1	1,6	21	690	0,90	294
R-CU/XLPE/IS/OS/LSZH/SWA/LSZH 10X2X1	1,8	27	1100	0,90	378
R-CU/XLPE/IS/OS/LSZH/SWA/LSZH 20X2X1	2	33	1700	1,25	462

Weight and diameter are theoretical +/- 10%