**INSTRUMENTATION CABLE**
**Cu, XLPE insulated, overall screen, LSZH bedding, SWA, LSZH outer sheath**
**IEC60332.1, IEC60332.3**

**Type** **R-Cu/XLPE/OS/LSZH/SWA/LSZH 0,6/1Kv**
**RE4OHM1FM1 0,6/1Kv**

**Conductor :** Stranded plain copper conductor according to IEC60228 cl.2 size 2,5sqmm ( 7x0,67 )
Diam. 2 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 cores, White numbered ( or to be agreed )

**Overall screen** Applied over total assembly will be wrapped with polyester tape and shielded with Aluminum/Mylar tape100% 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 outher sheath " manufacturer's name year & description cable " with ink-jet printer.

**Performance :**
- Conductor resistance 7,41 ohm/Km ( + 5% for multipair )
- Test voltage core to core 3,5 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 </= 0,90 mH/Km
- Capacitance </= 0,075 microF/Km

**SENSITHERM S.r.l.**

*PRODUCTION OF SPECIAL CABLES INSTRUMENTATION, CONTROL AND THERMOCOUPLE*

**Sensitherm Italy - www.sensitherm.com - e.mail: sensitherm@sensitherm.com**

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

| DESCRIPTION | Sheath thickness | Ext.Diam mm | W. Kg/Km | Armour Diam. | Bending radius |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| R-CU/XLPE/OS/LSZH/SWA/LSZH 7X2,5 | 1,8 | 18,4 | 660 | 0,90 | 258 |
| R-CU/XLPE/OS/LSZH/SWA/LSZH 12X2,5 | 1,8 | 22,4 | 960 | 0,90 | 314 |
| R-CU/XLPE/OS/LSZH/SWA/LSZH 19X2,5 | 2 | 25,6 | 1360 | 0,90 | 358 |
| R-CU/XLPE/OS/LSZH/SWA/LSZH 27X2,5 | 2 | 29,5 | 1780 | 1,25 | 413 |
| R-CU/XLPE/OS/LSZH/SWA/LSZH 37X2,5 | 2 | 32,5 | 2280 | 1,25 | 455 |

**Weight and diameter are theoretical + / - 10%**