

**INSTRUMENTATION CABLE**  
**Cu, XLPE insulated, overall screen, PVC bedding, SWB, PVC outer sheath**  
**IEC60332.3**

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<b>Type</b>	<b>F-Cu/XLPE/OS/PVC/SWB/PVC 450/750V FE4XOHRAR 450/750V</b>	<b>2X2X 16AWG</b>
<b>Conductor :</b>	Flexible plain copper conductor according to IEC60228 cl.5 size 16AWG ( 28x0,25 ) Diam. 1,55 mm	
<b>Insulation :</b>	Cross-linked XLPE extruded compound Thickness : 0,7 mm	- Temperature range -20 + 90°C - Temperature laying -5 + 90°C
<b>Laying up :</b>	Twisted to pair, color White - Blue / White - Orange ( or to be agreed )	
<b>Overall screen</b>	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.	
<b>Bedding :</b>	PVC, Polyvinylchloride Low Smoke and Fume extruded compound Thickness : 1,0 mm Under arm. diameter 12,5 mm	
<b>Armour :</b>	SWB, Galvanized steel braid wires Thickness : 0,3 mm	
<b>Outer sheath :</b>	PVC, Polyvinylchloride Low Smoke and Fume extruded compound Color : Orange ( or to be agreed ) Thickness : 1,6 mm Overall diameter : 16,8 mm Total weight : 380 Kg/Km	
<b>Marking :</b>	On the outer sheath " manufacturer's name year & description cable " with ink-jet printer.	
<b>Performance :</b>	<ul style="list-style-type: none"><li>- Conductor resistance 13,3 ohm/Km ( + 5% for multipair )</li><li>- Test voltage core to core 3 Kv</li><li>- Flame retardant according to IEC60332-3-24, CEI20-22/3</li><li>- Low smoke and fume as per IEC60754-1, CEI20-37</li><li>- HCL emission &lt;= 22%</li><li>- Minimum bending radius 12 V. D.</li><li>- Hydrocarbon UV resistant</li><li>- Cable for intrinsically safe application</li><li>- Inductance &lt;= 0,90 mH/Km</li><li>- Capacitance &lt;= 0,075 microF/Km</li><li>- This cable is suitable to be used in ATEX area following the EN60079-14 as 9.3.2 (a)</li></ul>	

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