

**INSTRUMENTATION CABLE**  
**Cu, PVC insulated, individual and overall screen, PVC bedding, SWA, PVC outer sheath**  
**IEC60332.3, CEI20-22/3, EN50288-7**

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<b>Type</b>	<b>F-Cu/PVC/IS/OS/PVC/SWA/PVC 300/500V FR2XHOHRFR 300/500V</b>	<b>6X2X 1,5sqmm</b>
<b>Conductor :</b>	Flexible plain copper conductor according to IEC60228 cl.5 size 1,5sqmm ( 28x0,25 ) Diam. 1,55 mm	
<b>Insulation :</b>	PVC extruded compound Thickness : 0,5 mm	- Temperature range -15 + 70°C - Temperature laying -5 + 70°C
<b>Laying up :</b>	Twisted to pair, color Blue - Black numbered ( or to be agreed )	
<b>Pair/Triad screen</b>	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 7x0,30 size 0,5sqmm, over the screen will be placed a further Mylar tape.	
<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	
<b>Armour :</b>	SWA, Galvanized steel round wires Thickness : 0,9 mm	
<b>Outer sheath :</b>	PVC, Polyvinylchloride Low Smoke and Fume extruded compound Color : Blue ( or to be agreed ) Thickness : 1,8 mm Overall diameter : 23 mm Total weight : 840 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 2 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 <math>\leq</math> 22%</li><li>- Minimum bending radius 12 V. D.</li><li>- Hydrocarbon and UV resistant</li> <li>- Inductance <math>\leq</math> 1,25 mH/Km</li><li>- Capacitance <math>\leq</math> 0,200 microF/Km</li></ul>	

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