

**INSTRUMENTATION CABLE**  
**Cu, EPR insulated, individual and overall screen, SHF1 bedding, TCWB, SHF1 outer sheath**  
**IEC60332.3-22, IEC60092-350, IEC60092-376**

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<b>Type</b>	<b>Rt-Cu/EPR/IS/OS/SHF1/TCWB/SHF1 250V</b>	<b>12X2X 1,5sqmm</b>
	<b>RG7XHOHM1H2M1 250V</b>	
<b>Conductor :</b>	Stranded tinned copper conductor acc. to IEC60228 cl.2 size	1,5sqmm ( 7x0,53 )
	Diam. 1,55 mm	
<b>Insulation :</b>	Cross-linked HEPR extruded compound	- Temperature range -20 + 90°C
	Thickness : 0,45 mm	- Temperature laying -5 + 90°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>	SHF1 , Low Smoke Zero Halogen emission extruded compound	
	Thickness : 1,2 mm	
<b>Screen :</b>	TCWB tinned copper wire braid	
	Thickness : 0,3 mm	
<b>Outer sheath :</b>	SHF1 , Low Smoke Zero Halogen emission extruded compound	
	Color : Blue ( or to be agreed )	
	Thickness : 2,0 mm	
	Overall diameter : 28 mm	
	Total weight : 1340 Kg/Km	

**Marking :**

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

<b>Performance :</b>	- Conductor resistance	13,7 ohm/Km	( + 5% for multipair )
	- Test voltage core to core	1,5 Kv	
	- Flame retardant according to IEC60332-3-22, CEI20-22/2		
	- Low smoke and halogen free as per IEC60754-2, CEI20-37/2		
	- Low smoke density emission IEC61034-1/2		
	- Minimum bending radius	10 V. D.	
	- Hydrocarbon resistant		
	- Cable for intrinsically safe application		
	- Inductance </=	0,90 mH/Km	
	- Capacitance </=	0,250 microF/Km	
	- This cable is suitable to be used in ATEX area following the EN60079-14 prescription		

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