

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

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|--------------------------|---|--|
| <b>Type</b>              | <b>R-Cu/PVC/IS/OS/PVC/SWA/PVC 300/500V<br/>RR2XHOHRFR 300/500V</b>  | <b>12X3X 1,5sqmm + 1X1,5 Y/G</b>                                 |
| <b>Conductor :</b>       | Stranded plain copper conductor according to IEC60228 cl.2 size 1,5sqmm ( 7x0,53 )<br>Diam. 1,55 mm   |  |
| <b>Insulation :</b>      | PVC extruded compound<br>Thickness : 0,5 mm   | - Temperature range -15 + 70°C<br>- Temperature laying -5 + 70°C |
| <b>Laying up :</b>       | Twisted to core, color White - Red - 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>Total assembly</b>    | Twelve triad will be layed together with one Y/G core 1,5sqmm   |  |
| <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<br>Thickness : 1,0 mm   |  |
| <b>Armour :</b>          | SWA, Galvanized steel round wires<br>Thickness : 0,9 mm   |  |
| <b>Outer sheath :</b>    | PVC, Polyvinylchloride Low Smoke and Fume extruded compound<br>Color : Black ( or to be agreed )<br>Thickness : 2,0 mm<br>Overall diameter : 32 mm<br>Total weight : 1770 Kg/Km   |  |
| <b>Marking :</b>         | On the outer sheath " manufacturer's name year & description cable " with ink-jet printer.  |  |
| <b>Performance :</b>     | - Conductor resistance 12,1 ohm/Km ( + 5% for multipair )<br>- Test voltage core to core 2 Kv<br>- Flame retardant according to IEC60332-3-24, CEI20-22/3<br>- Low smoke and fume as per IEC60754-1, CEI20-37<br>- HCL emission <= 22%<br>- Minimum bending radius 14 V. D.<br>- Hydrocarbon and UV resistant<br><br>- Inductance <= 0,90 mH/Km<br>- Capacitance <= 0,250 microF/Km |  |

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