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Instrolex® Instrumentation Pairs

Instrolex® Instrumentation

Nexans ref.: IEC183AA002

Overall , Individual & overall screened with aluminium polyester tape plus tinned annealed copper drain wire

Description

- Plain annealed copper conductor
- V-90 RPPVC insulated
- Twisted pairs
- Overall , Individual & overall screened with aluminium polyester tape plus tinned annealed copper drain wire
- Rip cord
- 5V-90 RPPVC sheathed.



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Characteristics

Construction characteristics	
Outer sheath	PVC
Insulation	PVC
Overall screen	Annealed tinned copper drain wire + aluminium/ polyester tape
Conductor material	Annealed copper
Screen	Overall screen
Dimensional characteristics	
Nominal diameter of wires	0.3 mm
Conductor cross-section	0.5 mm ²
Number of pairs	2
Approximate weight	6.3 kg/100m
Nominal outer diameter	7.8 mm
Number of wires per conductor	7

Instrolex Electrical Characteristics

Conductor Size mm ²	Conductor Resistance at 20°C each wire Ohm/100m	Nominal Voltage Rating a.c./d.c.	Maximum Current Rating Amperes	Mutual Capacitance Cond to Cond Unscreened nF/100m	Mutual Capacitance Cond to Cond Screened nF/100m	Capacitance Both Wires Cond to Screen Screened nF/100m	L/R Ratio @ 1000Hz μH/Ohm
0.5	3.84	110/150	3	8.5	14.5	24	15.7
1.5	1.36	110/150	13	11.0	20	30	36.5

Conductor Size mm ²	Induction at 1000Hz μH/100m	Characteristic impedance @ 1000Hz unscreened Ohm	Characteristic impedance @ 1000Hz screened Ohm	Crosstalk attenuation between pairs @ 1000Hz unscreened db/100m	Crosstalk attenuation between pairs @ 1000Hz screened db/100m	Attenuation @ 1000Hz between 600 Ohm terminations unscreened db/100m	Attenuation @ 1000Hz between 600 Ohm terminations screened db/100m
0.5	110	450	350	100	120	0.09	0.11
1.5	95	350	260	-	-	0.07	0.09