

TECHNICAL DATA SHEET INSTRUMENTATION CABLES

Cable Description:

TCU / XLPE / OS / PVC 300 V 1T 12 AWG
UL 2250 / UL 13 TYPE ITC/PLTC 90°C

Design and Construction Data:		
Reference Manufacturing Standards		UL 13, UL 2250
Max. Permissible Continuous Conductor Temp	°C	90
Rated Voltage	V	300
Size	N x AWG	1 Triad x 12
Conductor Material & Shape		Tinned Cu & circular stranded 7 wires as per ASTM B33
Insulation Material		XLPE
Conductor Nominal Insulation Thickness	mm	0.51
Insulation Color		Black - White - Red
Assembly of insulated conductors		Three insulated conductors uniformly twisted into a triad
Lay of twist of element		As per UL 1277
Overall Shield/Screen Material		24 µm Aluminum foil bonded to non-hygroscopic polyester (Mylar) tape, Minimum 25% overlap
Overall Shield/Screen Drain Wire		14 AWG, Circular tinned copper, per ASTM B33, 7 strands minimum
Outer Sheath Material		PVC
Colour of Outer Sheath		BLACK
Approximate Cable Overall Diameter	mm	9.5
Electrical Data:		
Max. Conductor DC resistance @ 20 °C	ohms/km	5.83
Max. Mutual Capacitance	nf/km	150
Max. Inductance to Resistance Ratio	µH/ohms	60
Additional Data:		
Maximum pulling Tension	kN	0.495
Minimum Bending Radius	mm	76
The Cable generally meets the requirements of:	UL 13, UL 2250, Flame retardant Vertical Tray Test of 20.5 kW (70,000 Btu/h) per IEEE 383	
Packing Data:		
Drum Type		Non-Returnable
Length of Cable per drum (± 5%)	m	1000
Drum Dimensions "Height x Width" (Approx.)	m	0.8 x 0.66
Gross Weight (Approximate without Lagging)	kg	195
Cable Marking:		
BAHRA CABLES CO. KSA 1T 12 AWG (3.31 mm2) TCU / XLPE / OS / PVC 90°C TYPE ITC/PLTC (UL) DIR BUR SUN RES OIL RES Manufacturing Year - Meter marked		