

# Master Flex Cables

## INSTRUMENTATION CABLES, THERMOCOUPLE EXTENSION TYPE UN-ARMOURED / WIRE ARMOURED, UN - SIDELDED / OVERALL / INDIVIDUALSIDELDED

### Applications :

Can be used for instrumentation/process control in chemical and petrochemical industries and are required to transfer reference junction to the control room.

**Specifications :** As per ANSI MC 96.1

	CONSTRUCTIONS	TECHNICAL DATA	
<b>Conductor</b>	Solid type of J (Iron/Constantan), K(Chromel/Alumel), T(Copper/Constantan) E(Chromel/Constantan), Type S&R (Copper/Alloy#11) as per spec. ANSI MC 96.1 IN 16AWG (1.29MM) for single pair & 20AWG (0.81 mm) for multi pair cables	Temperature range EX type JX type KX type TX type	-18 to 204°C. -18 to 204°C. -18 to 204°C. -59 to 93°C.
<b>Insulation</b>	PVC Type T11 as per BS : 7655 Thickness shall be 0.38 mm Min.	Working voltage	300/500 Volts
<b>Color code</b>	EX type : Chromel(+)-Purple & Constantan(-)Red JX type : Iron(+)-White & Constantan(-) -Red KX type : Chrome!(+) - Yellow & Alumel(-) - Red TX type Copper (+) - Blue & Constantan (-) Red	Minimum bending radius	12 x cable diameter
<b>Pair shield (In case of individual shielded cables)</b>	Each twisted pair shielded with aluminium polyester tape and a stranded tinned copper drain wire of size 0.5 mm <sup>2</sup> for maximum electrostatic noise and cross talk rejection. All pair shields are electrically isolated from each other.	Conductor Loop resistance at 20°C-	Refer spec. ANSI MC 96.1
<b>Overall shield (In case of Ind. &amp; Overall shielded as well as overall shielded cables)</b>	Individually shielded pairs are cabled with non hygroscopic fillers if necessary, and the entire assembly is shielded with aluminium polyester tape and a stranded tinned copper drain wire of size 0.5 mm <sup>2</sup>	R.M.S. test voltage Core to core & Core to screen	1000 V rmsfor 1 minute.
<b>Bedding (In case of armoured cables)</b>	Extruded Black PVC Type TM1 of BS:7655	Inductance (Max.) Thermal EMF test	0.9 Micro Henry/Km. As per ANSI MC 96.1
<b>Wire Armour (In case of Armoured cables)</b>	A serving of round galvanized steel wires as per BS:1442, is applied with 90% minimum coverage .	Mutual Capacitance Core to core Core to Screen	250 nF/Km. Max 400nF/Km. Max.
<b>Sheath</b>	Extruded PVC Type TM1 of BS:7655. The colour of the sheath shall be PURPLE, BLACK, YELLOW & BLUE respectively for Type EX, JX, KX & TX cable.	Min. Insulation Resistance	100 Meg Ohms/Km.
<b>Printing Legend</b>	INSTRUMENTATION CABLE SHIELDED # PRX Area of cross section Type of conductor 300/500 V SURBHI YEAR		



**PACKING :** In Wooden Drums of 500/1000 Meters.

### NOTE :

- Sheath material shall be FR/FRLS/ZERO HALOGEN compound as per customer's request.
- As an alternate armoured cable shall be supplied with flat strip I Double steel Tape I Wire Braided as per customer requireme
- Higher pair count cables shall also be supplied Upto maximum overall diameter of 70mm.
- The given picture of the product may differ to its actual in construction/colour.