

Sr. No.	Description	5C x 2.5 mm <sup>2</sup>
1	Trade Name	"UNISTAR"
2	Reference Standard	Generally to IS : 9968/1/88
3	Voltage Grade	1100 Volts
4	<b>Conductor</b>	
	a) Material to IS : 8130/84	Annealed Tinned Copper
	b) Nominal Cross sectional Area (mm <sup>2</sup> )	2.5
	c) Flexibility Class as per IS : 8130/84	Class-5
	d) Max. DC. Resistance at 20 °C (Ohm/Km)	8.21
5	<b>Insulation</b>	
	a) Material to IS : 6380/84	EPR Type IE-2
	b) Nominal Thickness (mm.)	1.00
6	<b>Core Identification</b>	By Number Printing or by coloured insulation Red, Yellow, Blue, Black & Green
7	<b>No. of Cores</b>	5
8	<b>Laying Up</b>	Cores laid up together suitably
9	<b>Inner Sheath</b>	
	a) Material to IS : 6380/84	PCP Type SE-4 (Black Colour)
	b) Minimum Thickness (mm.)	1.20
	c) An open braided Cotton twine reinforcement in between inner & outer sheath	Yes
10	<b>Outer Sheath</b>	
	a) Material to IS : 6380/84	PCP Type SE-4 (Black Colour)
	b) Nominal Thickness (mm.)	2.00
11	<b>Approx. Overall Diameter of Cable (mm.)</b>	18.5
12	Max. Conductor Temperature for continuous operation	90°C
13	Recommended Minimum bending radius	12 x Overall diameter of the cable
14	Max. safe pulling force (kg/Sq.mm)	1.5
15	Continuous current rating in air at ambient temperature 40°C (Amps)	20
16	Short circuit current rating of conductor for duration 1 sec (KA)	0.36
17	Derating factor for variation in ambient air temperature	
	a) Temperature	30    35    40    45    50    55
	b) Rating factor	1.12   1.06   1.00   0.94   0.86   0.80
18	Identification and Marking	Manufacturer's Name and/or Trade Name and HR-90 shall be identified throughout the cable length at interval not exceeding one meter either by printed tape in the cable or by printing on the outer sheath.

**Note-** Since inner and outer sheath shall be adherent with the reinforcement in between, it will not be possible to measure inner and outer sheath separately. Hence the total combined thickness shall be measured which shall satisfy the inner and outer sheath specifies separately. The smallest of the measured value shall not be less than the sum of the inner sheath specified and minimum value of the outer sheath specified in IS specification.