

TECHNICAL PARTICULARS

Sr. No.	Description	3C x 50 mm ²	10C x 1.5 mm ²	6C x 2.5 mm ²	10C x 1.0 mm ²	6C x 1.0 mm ²	2C x 1.5 mm ²
1	Trade Name	"UNISTAR"	"UNISTAR"	"UNISTAR"	"UNISTAR"	"UNISTAR"	"UNISTAR"
2	Reference Standard	IS : 9968/1/88	Generally to IS : 9968/1/88	Generally to IS : 9968/1/88	Generally to IS : 9968/1/88	Generally to IS : 9968/1/88	IS : 9968/1/88
3	Voltage Grade	1100 Volts	1100 Volts	1100 Volts	1100 Volts	1100 Volts	1100 Volts
4	Conductor						
	a) Material to IS : 8130/84	Annealed Tinned Copper	Annealed Tinned Copper	Annealed Tinned Copper	Annealed Tinned Copper	Annealed Tinned Copper	Annealed Tinned Copper
	b) Nominal Cross sectional Area (mm ²)	50	1.5	2.5	1.0	1.0	1.5
	c) Flexibility Class as per IS : 8130/84	Class-5	Class-5	Class-5	Class-5	Class-5	Class-5
	d) Max. DC. Resistance at 20°C (Ohm/Km)	0.393	13.7	8.21	20.0	20.0	13.7
5	Insulation						
	a) Material to IS : 6380/84	EPR Type IE-2	EPR Type IE-2	EPR Type IE-2	EPR Type IE-2	EPR Type IE-2	EPR Type IE-2
	b) Nominal Thickness (mm.)	1.6	0.8	0.9	0.6	0.6	0.8
6	Core Identification	By number printing or by coloured proofed tape Red, Yellow,& Blue	By Number Printing	By Number Printing	By Number Printing	By Number Printing	By number printing or by coloured Insulation Red, & Black
7	No. of Cores	3	10	6	10	6	2
8	Laying Up	Cores laid up together suitably	Cores laid up together suitably	Cores laid up together suitably	Cores laid up together suitably	Cores laid up together suitably	Cores laid up together suitably
9	Outer Sheath						
	a) Material to IS : 6380/84	PCP Type SE-4 (Black Colour)	PCP Type SE-4 (Black Colour)	PCP Type SE-4 (Black Colour)	PCP Type SE-4 (Black Colour)	PCP Type SE-4 (Black Colour)	PCP Type SE-3 (Black Colour)
	b) Nominal Thickness (mm.)	3.6	2.0	1.3	1.6	1.2	1.00
10	Approx. Overall Diameter of Cable (mm.)	36.5	17.5	15.0	14.0	11.0	9.0
11	Max. Conductor Temperature for continuous operation	90°C	90°C	90°C	90°C	90°C	90°C

12	Recommended Minimum bending radius	6 x Overall diameter of the cable	6 x Overall diameter of the cable	6 x Overall diameter of the cable	6 x Overall diameter of the cable	6 x Overall diameter of the cable	6 x Overall diameter of the cable
13	Continuous current rating in air at ambient temperature 40°C (Amps)	190	12	20	7	10	21
14	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					
15	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.					