

300/500 V 70°C SOLID CONDUCTOR PVC INSULATED, SINGLE CORE

TIS 11 Part 3-2553



CABLE STRUCTURE

Conductor : Solid annealed copper wire
 : Sizes 0.5 mm² up to 1 mm²

Insulation : Polyvinyl chloride (PVC/C)

Core identification : Single-cores : Any color

TECHNICAL DATA

Classification : Maximum conductor temperature 70 °C
 : Circuit voltage not exceeding 300/500 Volts

Rated voltage : 300 Volts between Line to Earth
 : 500 Volts between Line to Line

Testing voltage : 2,000 Volts

Reference standard : TIS 11 Part 3-2553, Table 5

APPLICATION

Building wiring for installation on insulator or in raceway dry location.

Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Overall diameter		Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating in free air maximum (40 °C) (A)	Cable weight approx. (kg/km)	Standard Length (m)
			Minimum (mm)	Maximum (mm)					
0.5	Solid	0.6	1.9	2.3	36.0	0.015	3	8.8	100/C
0.75	Solid	0.6	2.1	2.5	24.5	0.012	6	12	100/C
1	Solid	0.6	2.2	2.7	18.1	0.011	10	14	100/C

C : Packing in Coil

Nominal cross sectional area (mm ²)	A.C. Resistance	Inductance	Reactance	Impedance
	R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
0.5	43.0740	0.5798	0.1821	43.0744
0.75	29.3143	0.5486	0.1723	29.3148
1	21.6567	0.5366	0.1686	21.6573

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