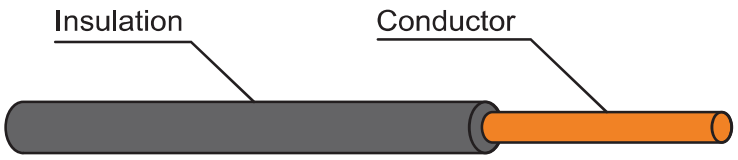
60227 IEC 07 HIV

300/500 V 90°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 2.5 mm²

Insulation : Polyvinyl chloride (PVC/E)

Core identification : Single-cores : Any color

TECHNICAL DATA

Classification : Maximum conductor temperature 90 °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 9

APPLICATION

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

B

Nominal cross sectional area (mm^2)	Conductor type	Insulation thickness nominal (mm)	Overall diameter Minimum (mm)	Overall diameter Maximum (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 90°C minimum (MΩ-km)	Continuous currunt rating in free air maximum (40 °C) (A)	Cable weight approx. (kg/km)	Standard Length (m)
0.5	Solid	0.6	1.9	2.3	36.0	0.015	3	8.6	100/C
0.75	Solid	0.6	2.1	2.5	24.5	0.013	6	11	100/C
1	Solid	0.6	2.2	2.7	18.1	0.012	10	14	100/C
1.5	Solid	0.7	2.6	3.2	12.1	0.011	16	20	100/C
2.5	Solid	0.8	3.2	3.9	7.41	0.009	25	32	100/C

C : Packing in Coil

Nominal cross sectional area (mm^2)	A.C.Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
0.5	43.0740	0.5758	0.1809	43.0744
0.75	29.3143	0.5526	0.1736	29.3148
1	21.6567	0.5401	0.1697	21.6573
1.5	14.4777	0.5288	0.1661	14.4786
2.5	8.8661	0.5198	0.1633	8.8676