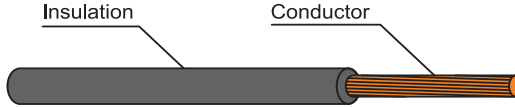


450/750V 70 °C STRANDED CONDUCTOR PVC INSULATED SUPER SOFT SINGLE CORE

SUPER SOFT
YK
SERIES
CABLE

TIS 11 Part 3-2553



CABLE STRUCTURE

Conductor : Stranded annealed copper wire
: Sizes 6 mm² up to 185 mm²

Insulation : Polyvinyl chloride (PVC/C)

Core identification : Single-cores : Any color

TECHNICAL DATA

Classification : Maximum conductor temperature 70 °C
: Circuit voltage not exceeding 450/750 Volts

Rated voltage : 450 Volts between Line to Earth
: 750 Volts between Line to Line

Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 3-2553, Table 1

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)	Standard Length	
			Minimum (mm)	Maximum (mm)						(m/D)	(m/D)
6	Non-Compacted	0.8	4.3	5.2	3.08	0.0065	49	70	100/C	1000	2000
10	Non-Compacted	1.0	5.6	6.7	1.83	0.0065	68	120	100/C	1000	2000
16	Compacted	1.0	6.4	7.8	1.15	0.0050	91	180	100/C	1000	2000
25	Compacted	1.2	8.1	9.7	0.727	0.0050	122	280	100/C	1000	2000
35	Compacted	1.2	9.0	10.9	0.524	0.0043	151	370	100/C	1000	2000
50	Compacted	1.4	10.6	12.8	0.387	0.0043	184	500	500/D	1000	2000
70	Compacted	1.4	12.1	14.6	0.263	0.0035	234	700	500/D	1000	2000
95	Compacted	1.6	14.1	17.1	0.193	0.0035	292	1000	500/D	1000	2000
120	Compacted	1.6	15.6	18.8	0.153	0.0032	341	1200	500/D	1000	2000
150	Compacted	1.8	17.3	20.9	0.124	0.0032	391	1500	500/D	1000	2000
185	Compacted	2.0	19.3	23.3	0.0991	0.0032	454	1900	500/D	1000	2000

C : Packing in Coil
D : Packing in Drum

Number of core	Nominal cross sectional area (mm ²)	A.C. Resistance	Inductance	Reactance	Impedance
		R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
6	Non-Compacted	3.9273	0.4799	0.1508	3.9302
10	Non-Compacted	2.3335	0.4758	0.1495	2.3383
16	Compacted	1.4664	0.4645	0.1459	1.4737
25	Compacted	0.9271	0.4630	0.1455	0.9384
35	Compacted	0.6683	0.4537	0.1425	0.6833
50	Compacted	0.4937	0.4513	0.1418	0.5136
70	Compacted	0.3420	0.4349	0.1366	0.3683
95	Compacted	0.2465	0.4347	0.1366	0.2818
120	Compacted	0.1956	0.4297	0.1350	0.2377
150	Compacted	0.1588	0.4270	0.1342	0.2079
185	Compacted	0.1272	0.4271	0.1342	0.1849