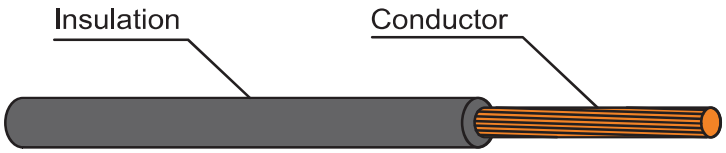
YK 60227 IEC 01 THW

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 mm^2 up to 185 mm^2

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.

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 70°C minimum (MΩ-km)	Continuous currunt rating in free air maximum (40°C) (A)	Cable weight approx. (kg/km)	Standard Length (m)	Standard Length (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
240	Compacted	2.2	22.0	26.6	0.0754	0.0032	543	2500	500/D	1000	2000

C : Packing in Coil

D : Packing in Drum

Nominal cross sectional area (mm^2)	Conductor type	A.C.Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
6	Non-Compacted	3.6852	0.5606	0.1761	3.6894
10	Non-Compacted	2.1896	0.5219	0.1639	2.1958
16	Compacted	1.3776	0.4642	0.1458	1.3838
25	Compacted	0.8700	0.4594	0.1443	0.8819
35	Compacted	0.6271	0.4496	0.1413	0.6428
50	Compacted	0.4633	0.4477	0.1407	0.4841
70	Compacted	0.3210	0.4354	0.1368	0.3489
95	Compacted	0.2314	0.4347	0.1366	0.2687
120	Compacted	0.1836	0.4295	0.1349	0.2279
150	Compacted	0.1491	0.4292	0.1348	0.2010
185	Compacted	0.1194	0.4281	0.1345	0.1799
240	Compacted	0.0914	0.4257	0.1337	0.1620