

## NY Y

450/750 V 70 °C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED

REF. TIS 11  
PART 101-2559

### TABLE 3



#### CABLE STRUCTURE

<b>Conductor</b>	: Solid and stranded annealed copper : Single-core : Sizes 1 mm <sup>2</sup> up to 500 mm <sup>2</sup> : Multi-cores : Sizes 50 mm <sup>2</sup> up to 300 mm <sup>2</sup>
<b>Insulation</b>	: Polyvinyl chloride (PVC/C)
<b>Core identification</b>	: Single-core : Black : 2 cores : Blue and Brown : 3 Cores : Brown, Black and Grey : 4 Cores : Blue, Brown, Black and Grey
<b>Inner sheath</b>	: Black polyvinyl chloride (PVC), (Multi-cores only)
<b>Outer sheath</b>	: Black polyvinyl chloride (PVC/ST4)

#### TECHNICAL DATA

<b>Classification</b>	: Maximum conductor temperature 70 °C : Circuit voltage not exceeding 450/750 Volts
<b>Rated voltage</b>	: 450 Volts between Line to Earth : 750 Volts between Line to Line
<b>Testing voltage</b>	: 2,500 Volts
<b>Reference standard</b>	: Tis 11 Part 101-2559 Table 3
<b>APPLICATION</b>	: For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Nominal cross sectional area (mm <sup>2</sup> )	Class of Conductor	Insulation thickness nominal (mm)	Outer Sheath thickness nominal (mm)	Overall diameter maximum (mm)	Conductor resistance at 20 °C maximum (Ω/km)	Insulation resistance at 70 °C minimum (MΩ-km)	Continuous current rating maximum		Cable weight approx. (kg/km)	Standard length (m)
								Free air at 40 °C (A)	Under ground at 30 °C (A)		
1	1	1	15	18	8.6	18.1	0.0207	19	25	80	100/C
	1	2	15	18	8.8	18.1	0.0200	19	25	80	100/C
	15	1	15	18	9.0	12.1	0.0184	24	31	85	100/C
	15	2	15	18	9.2	12.1	0.0175	24	31	90	100/C
	25	1	15	18	9.4	7.41	0.0157	32	41	100	100/C
	25	2	15	18	9.8	7.41	0.0146	32	41	110	100/C
	4	1	15	18	10.0	4.61	0.0135	43	53	120	100/C
	4	2	15	18	10.5	4.61	0.0124	43	53	130	100/C



Number of core	Nominal cross sectional area (mm <sup>2</sup> )	Class of Conductor	Insulation thickness nominal (mm)	Outer Sheath thickness nominal (mm)	Overall diameter maximum (mm)	Conductor resistance at 20 °C maximum (Ω/km)	Insulation resistance at 70 °C minimum (MΩ-km)	Continuous current rating maximum		Cable weight approx. (kg/km)	Standard length (m)
								Free air at 40 °C (mm)	Under ground at 30 °C (mm)		
1	6	2	1.5	1.8	11.0	3.08	0.0107	54	68	160	100/C
	10	2	1.5	1.8	12.0	0.0088	0.9	73	79	210	500/D
	16	2	1.5	1.8	13.0	0.0074	0.9	97	118	280	500/D
	25	2	1.5	1.8	14.5	0.0061	0.9	129	158	390	500/D
	35	2	1.5	1.8	16.0	0.0053	0.9	159	185	490	500/D
	50	2	1.5	1.8	17.0	0.0046	0.9	191	220	620	500/D
	70	2	1.5	1.8	19.0	0.0039	0.9	241	271	850	500/D
	95	2	1.7	1.8	21.5	0.0038	0.9	297	326	1,100	500/D
	120	2	1.7	1.8	23.0	0.0034	0.9	345	372	1,400	500/D
	150	2	1.9	2.0	26.0	0.0034	0.9	397	418	1,700	500/D
	185	2	2.1	2.0	28.0	0.0034	0.9	456	473	2,100	500/D
	240	2	2.3	2.2	31.5	0.0033	0.9	541	549	2,700	500/D
	300	2	2.5	2.2	35.0	0.0032	0.9	628	624	3,400	500/D
	400	2	2.7	2.2	38.5	0.0030	0.9	733	713	4,300	500/D
500	2	3.1	2.4	43.0	0.0031	0.9	848	810	5,400	500/D	

**Class Of Conductor**

1 : Solid, 2 : Strand  
C : Packing in coil (սսզլսսս), D : Packing in drum (սսզլսնն)

Number of core	Nominal cross sectional area (mm <sup>2</sup> )	A.C. Resistance	Inductance	Reactance	Impedance
		R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
1	1 (1)	21.6987	0.770	0.24186	21.70000
	1 (7)	21.6987	0.758	0.23808	21.70000
	1.5 (1)	14.4982	0.735	0.23082	14.50000
	1.5 (7)	14.4982	0.720	0.22632	14.50000
	2.5 (1)	8.8703	0.693	0.21775	8.87300
	2.5 (7)	8.8705	0.675	0.21222	8.87300
	4 (1)	5.5201	0.657	0.20650	5.52400
	4 (7)	5.5204	0.639	0.20063	5.52400
	6	3.6900	0.610	0.19176	3.69500
	10	2.1896	0.575	0.18068	2.19700
	16	1.3804	0.546	0.17162	1.39100
	25	0.8610	0.522	0.16403	0.87649
	35	0.6271	0.504	0.15837	0.64679
	50	0.4633	0.490	0.15379	0.48816
	70	0.3210	0.474	0.14896	0.35388
	95	0.2314	0.466	0.14636	0.27380
	120	0.1836	0.458	0.14393	0.23329
	150	0.1491	0.458	0.14380	0.20715
	185	0.1195	0.453	0.14243	0.18592
	240	0.0914	0.450	0.14140	0.16837
300	0.0734	0.445	0.13994	0.15802	
400	0.0582	0.441	0.13846	0.15018	
500	0.0462	0.411	0.13844	0.14595	

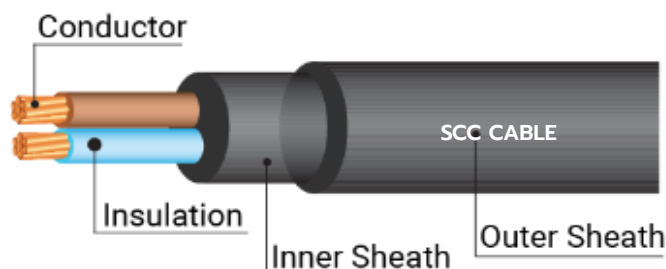
(\_) : No of copper wire

## NYY (2 CORES)

450/750 V 70 °C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED

REF. TIS 11  
PART 101-2559

### TABLE 4



#### CABLE STRUCTURE

<b>Conductor</b>	: Solid and stranded annealed copper, Multi-cores : Sizes 1 mm <sup>2</sup> up to 300 mm <sup>2</sup>
<b>Insulation</b>	: Polyvinyl chloride (PVC/C)
<b>Core identification</b>	: Single-core : Black : 2 cores : Blue and Brown : 3 Cores : Brown, Black and Grey : 4 Cores : Blue, Brown, Black and Grey
<b>Inner sheath</b>	: Black polyvinyl chloride (PVC)
<b>Outer sheath</b>	: Black polyvinyl chloride (PVC/ST4)

#### TECHNICAL DATA

<b>Classification</b>	: Maximum conductor temperature 70 °C : Circuit voltage not exceeding 450/750 Volts
<b>Rated voltage</b>	: 450 Volts between Line to Earth : 750 Volts between Line to Line
<b>Testing voltage</b>	: 2,500 Volts
<b>Reference standard</b>	: Tis 11 Part 101-2559 Table 4
<b>APPLICATION</b>	: For installation exposed, or in raceway, wet or dry location.

Number of core	Nominal cross sectional area (mm <sup>2</sup> )	Class of Conductor	Insulation thickness nominal (mm)	Inner Sheath thickness nominal (mm)	Outer Sheath thickness nominal (mm)	Overall diameter Maximum (mm)	Conductor resistance at 20 °C maximum (Ω/km)	Insulation resistance at 70 °C minimum (MΩ-km)	Continuous current rating in free air maximum		Cable weight approx. (kg/km)	Standard length (m)
									Free air at 40 °C (A)	Under ground at 30 °C (A)		
2	1	1	0.8	0.8	1.8	12.0	18.1	0.0141	15	21	95	100/C
	1	2	0.8	0.8	1.8	12.5	18.1	0.0135	15	21	100	100/C
	15	1	0.8	0.8	1.8	12.5	12.1	0.0123	19	27	120	100/C
	15	2	0.8	0.8	1.8	13.0	12.1	0.0116	19	27	130	100/C
	25	1	0.8	0.8	1.8	13.5	7.41	0.0102	25	35	160	100/C
	25	2	0.8	0.8	1.8	14.0	7.41	0.0093	25	35	180	100/C
	4	1	0.9	0.8	1.8	15.0	4.61	0.0094	33	47	210	100/C
	4	2	0.9	0.8	1.8	15.5	4.61	0.0085	33	47	220	100/C
	6	2	0.9	0.8	1.8	17.0	3.08	0.0073	44	57	300	100/C

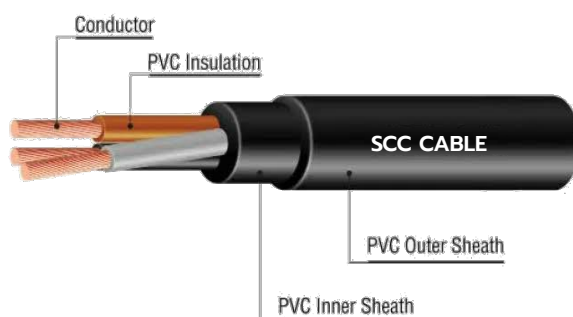


## NY Y (3 CORES)

450/750 V 70 °C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED

REF. TIS 11  
PART 101-2559

### TABLE 4



#### CABLE STRUCTURE

<b>Conductor</b>	: Solid and stranded annealed copper, Multi-cores : Sizes 1 mm <sup>2</sup> up to 300 mm <sup>2</sup>
<b>Insulation</b>	: Polyvinyl chloride (PVC/C)
<b>Core identification</b>	: Single-core : Black 2 cores : Blue and Brown 3 Cores : Brown, Black and Grey 4 Cores : Blue, Brown, Black and Grey
<b>Inner sheath</b>	: Black polyvinyl chloride (PVC)
<b>Outer sheath</b>	: Black polyvinyl chloride (PVC/ST4)

#### TECHNICAL DATA

<b>Classification</b>	: Maximum conductor temperature 70 °C : Circuit voltage not exceeding 450/750 Volts
<b>Rated voltage</b>	: 450 Volts between Line to Earth : 750 Volts between Line to Line
<b>Testing voltage</b>	: 2,500 Volts
<b>Reference standard</b>	: Tis 11 Part 101-2559 Table 4
<b>APPLICATION</b>	: For installation exposed, or in raceway, wet or dry location.

Number of core	Nominal cross sectional area (mm <sup>2</sup> )	Class of Conductor	Insulation thickness nominal (mm)	Inner Sheath thickness nominal (mm)	Outer Sheath thickness nominal (mm)	Overall diameter Maximum (mm)	Conductor resistance at 20 °C maximum (Ω/km)	Insulation resistance at 70 °C minimum (MΩ-km)	Continuous current rating in free air maximum		Cable weight approx. (kg/km)	Standard length (m)
									Free air at 40 °C (A)	Under ground at 30 °C (A)		
3	1	1	0.8	0.8	1.8	12.5	18.1	0.0141	15	21	180	100/C
	1	2	0.8	0.8	1.8	13.0	18.1	0.0135	15	21	190	100/C
	15	1	0.8	0.8	1.8	13.0	12.1	0.0123	19	27	205	100/C
	15	2	0.8	0.8	1.8	13.5	12.1	0.0116	19	27	220	100/C
	25	1	0.8	0.8	1.8	14.0	7.41	0.0102	25	35	250	100/C
	25	2	0.8	0.8	1.8	15.0	7.41	0.0093	25	35	270	100/C
	4	1	0.9	0.8	1.8	15.5	4.61	0.0094	33	47	335	100/C
	4	2	0.9	0.8	1.8	16.5	4.61	0.0085	33	47	360	100/C
	6	2	0.9	0.8	1.8	18.0	3.08	0.0073	44	57	450	100/C



Number of core	Nominal cross sectional area (mm <sup>2</sup> )	Class of Conductor	Insulation thickness nominal (mm)	Inner Sheath thickness nominal (mm)	Outer Sheath 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		Cable weight approx. (kg/km)	Standard length (m)
						Maximum (mm)			Free air at 40 °C (A)	Under ground at 30 °C (A)		
3	10	2	1.1	0.8	1.8	20.5	1.83	0.0069	60	76	660	500/D
	16	2	1.1	1.2	2.0	24.5	1.15	0.0057	80	99	970	500/D
	25	2	1.3	1.2	2.0	28.5	0.727	0.0054	127	128	1,410	500/D
	35	2	1.3	1.2	2.0	31.5	0.524	0.0047	157	154	1,810	500/D
	50	2	1.5	1.5	2.2	36.0	0.387	0.0046	191	181	2,410	500/D
	70	2	1.5	1.5	2.2	40.5	0.268	0.0039	244	233	3,200	500/D
	95	2	1.7	1.5	2.4	46.0	0.193	0.0038	297	267	4,300	500/D
	120	2	1.7	1.8	2.6	50.5	0.153	0.0034	345	304	5,320	500/D
	150	2	1.9	1.8	2.8	56.0	0.124	0.0034	397	342	6,490	500/D
	185	2	2.1	2.0	3.0	61.5	0.0991	0.0034	453	386	8,060	500/D
	240	2	2.3	2.0	3.2	69.0	0.0754	0.0033	535	448	10,360	300/D
300	2	2.5	2.2	3.4	76.0	0.0601	0.0032	617	507	12,810	300/D	

**Class Of Conductor**

1 : Solid, 2 : Strand

C : Packing in coil (ussq̄ໄບສດ), D : Packing in drum (ussq̄ໄບຄ້ອ)

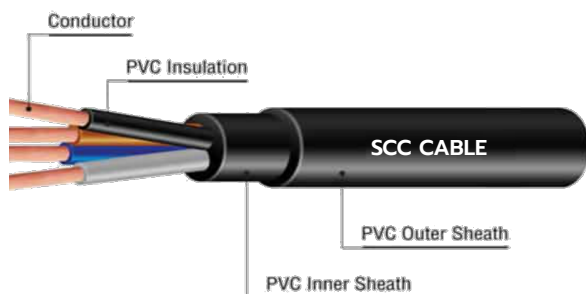
(\_) : No of copper wire

## NY Y (4 CORES)

450/750 V 70 °C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED

REF. TIS 11  
PART 101-2559

### TABLE 4



#### CABLE STRUCTURE

<b>Conductor</b>	: Solid and stranded annealed copper, Multi-cores : Sizes 1 mm <sup>2</sup> up to 300 mm <sup>2</sup>
<b>Insulation</b>	: Polyvinyl chloride (PVC/C)
<b>Core identification</b>	: Single-core : Black 2 cores : Blue and Brown 3 Cores : Brown, Black and Grey 4 Cores : Blue, Brown, Black and Grey
<b>Inner sheath</b>	: Black polyvinyl chloride (PVC)
<b>Outer sheath</b>	: Black polyvinyl chloride (PVC/ST4)

#### TECHNICAL DATA

<b>Classification</b>	: Maximum conductor temperature 70 °C : Circuit voltage not exceeding 450/750 Volts
<b>Rated voltage</b>	: 450 Volts between Line to Earth : 750 Volts between Line to Line
<b>Testing voltage</b>	: 2,500 Volts
<b>Reference standard</b>	: Tis 11 Part 101-2559 Table 4
<b>APPLICATION</b>	: For installation exposed, or in raceway, wet or dry location.

Number of core	Nominal cross sectional area (mm <sup>2</sup> )	Class of Conductor	Insulation thickness nominal (mm)	Inner Sheath thickness nominal (mm)	Outer Sheath thickness nominal (mm)	Overall diameter Maximum (mm)	Conductor resistance at 20 °C maximum (Ω/km)	Insulation resistance at 70 °C minimum (MΩ-km)	Continuous current rating in free air maximum		Cable weight approx. (kg/km)	Standard length (m)
									Free air at 40 °C (A)	Under ground at 30 °C (A)		
4	1	1	0.8	0.8	1.8	13.5	18.1	0.0141	15	21	210	100/C
	1	2	0.8	0.8	1.8	14.0	18.1	0.0135	15	21	220	100/C
	15	1	0.8	0.8	1.8	14.0	12.1	0.0123	19	27	240	100/C
	15	2	0.8	0.8	1.8	14.5	12.1	0.0116	19	27	260	100/C
	25	1	0.8	0.8	1.8	15.0	7.41	0.0102	25	35	300	100/C
	25	2	0.8	0.8	1.8	16.0	7.41	0.0093	25	35	320	100/C
	4	1	0.9	0.8	1.8	17.0	4.61	0.0094	33	47	400	100/C
	4	2	0.9	0.8	1.8	17.5	4.61	0.0085	33	47	440	100/C
	6	2	0.9	0.8	1.8	19.0	3.08	0.0073	44	57	550	100/C



Number of core	Nominal cross sectional area (mm <sup>2</sup> )	Class of Conductor	Insulation thickness nominal (mm)	Inner Sheath thickness nominal (mm)	Outer Sheath 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		Cable weight approx. (kg/km)	Standard length (m)
						Maximum (mm)			Free air at 40 °C (A)	Under ground at 30 °C (A)		
4	10	2	1.1	0.8	2.0	23.0	1.83	0.0069	60	76	840	500/D
	16	2	1.1	1.2	2.0	26.5	1.15	0.0057	80	99	1,200	500/D
	25	2	1.3	1.2	2.0	31.0	0.727	0.0054	127	128	1,760	500/D
	35	2	1.3	1.5	2.2	35.0	0.524	0.0047	157	154	2,360	500/D
	50	2	1.5	1.5	2.2	39.5	0.387	0.0046	191	181	3,020	500/D
	70	2	1.5	1.5	2.4	44.5	0.268	0.0039	244	233	4,090	500/D
	95	2	1.7	1.8	2.6	51.5	0.193	0.0038	297	267	5,580	500/D
	120	2	1.7	1.8	2.8	56.0	0.153	0.0034	345	304	6,800	500/D
	150	2	1.9	2.0	3.0	62.0	0.124	0.0034	397	342	8,360	500/D
	185	2	2.1	2.0	3.2	68.0	0.0991	0.0034	453	386	10,310	500/D
	240	2	2.3	2.2	3.4	76.5	0.0754	0.0033	535	448	13,350	300/D
300	2	2.5	2.2	3.8	85.0	0.0601	0.0032	617	507	16,500	300/D	

**Class Of Conductor**

1 : Solid, 2 : Strand

C : Packing in coil (ပတ်လည်ပတ်), D : Packing in drum (ပတ်လည်လှဲ)

(\_) : No of copper wire