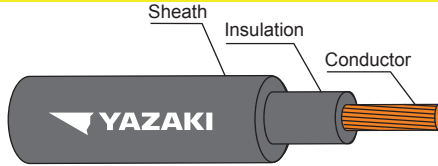


NYN or YK NYN

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



TIS 11 Part 101-2559

CABLE STRUCTURE

Conductor : Solid and stranded annealed copper wire
Insulation : Polyvinyl chloride (PVC/C)
Core identification : Black
Sheath : Black polyvinyl Chloride (PVC/ST4)

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
AC Testing voltage : 2,500 volts
Reference standard : TIS 11 Part 101-2559 Table 3

APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

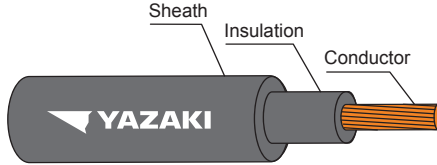
Cable name	Number x Size of conductor	Conductor Type	Insulation thickness nominal	Sheath thickness nominal	Overall diameter maximum	Conductor resistance at 20°C maximum	Insulation resistance at 70°C minimum	Continuous current rating in free air at 40°C maximum (A)			Continuous current rating in ground at 30°C maximum	Cable weight approx. (kg/km)	Standard Length (m)
								Spaced	Touching	Trefoil			
	(No. x mm ²)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ·km)						
NYN	1×1	Solid	1.5	1.8	8.6	18.1	0.0207	19	16	15	21	80	100/C
	1×1	Non-compacted	1.5	1.8	8.8	18.1	0.0200	19	16	15	21	80	100/C
	1×1.5	Solid	1.5	1.8	9.0	12.1	0.0184	24	19	19	26	85	100/C
	1×1.5	Non-compacted	1.5	1.8	9.2	12.1	0.0175	24	19	19	26	90	100/C
	1×2.5	Solid	1.5	1.8	9.4	7.41	0.0157	32	24	26	35	100	100/C
	1×2.5	Non-compacted	1.5	1.8	9.8	7.41	0.0146	32	24	26	35	110	100/C
	1×4	Solid	1.5	1.8	10.0	4.61	0.0135	42	33	34	45	120	100/C
YK NYN	1×4	Non-compacted	1.5	1.8	10.5	4.61	0.0124	42	33	34	45	130	100/C
	1×6	Non-compacted	1.5	1.8	11.0	3.08	0.0107	54	42	43	57	160	1000/D
	1×10	Non-compacted	1.5	1.8	12.0	1.83	0.0088	73	57	59	76	210	1000/D
	1×16	Compacted	1.5	1.8	13.0	1.15	0.0074	96	76	78	99	290	1000/D
	1×25	Compacted	1.5	1.8	14.5	0.727	0.0061	127	99	96	128	390	1000/D
	1×35	Compacted	1.5	1.8	16.0	0.524	0.0053	157	124	119	154	490	1000/D
	1×50	Compacted	1.5	1.8	17.0	0.387	0.0046	191	151	145	181	600	1000/D
	1×70	Compacted	1.5	1.8	19.0	0.268	0.0039	244	196	188	223	850	1000/D
	1×95	Compacted	1.7	1.8	21.5	0.193	0.0038	297	239	230	267	1100	1000/D
	1×120	Compacted	1.7	1.8	23.0	0.153	0.0034	345	279	268	304	1300	1000/D
	1×150	Compacted	1.9	2.0	26.0	0.124	0.0034	397	324	310	342	1600	1000/D
NYN	1×185	Compacted	2.1	2.0	28.0	0.0991	0.0034	453	371	356	386	2000	1000/D
	1×240	Compacted	2.3	2.2	31.5	0.0754	0.0033	535	441	422	448	2800	1000/D
	1×300	Non-compacted	2.5	2.2	35.0	0.0601	0.0032	617	511	488	507	3400	500/D
	1×400	Non-compacted	2.7	2.2	38.5	0.0470	0.0030	741	599	571	577	4300	500/D
	1×500	Non-compacted	3.1	2.4	43.0	0.0366	0.0031	854	686	652	654	5400	500/D

C = Packing in Coil
D = Packing in drum

Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

NYN or YK NYN

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



 TIS 11 Part 101-2559

CABLE STRUCTURE

Conductor	: Solid and stranded annealed copper wire
Insulation	: Polyvinyl chloride (PVC/C)
Core identification	: Black
Sheath	: Black polyvinyl Chloride (PVC/ST4)

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
AC Testing voltage	: 2,500 volts
Reference standard	: TIS 11 Part 101-2559 Table 3

APPLICATION

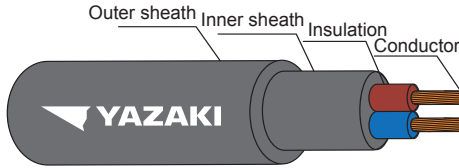
For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

Cable name	Number x Size of conductor (No. x mm ²)	Conductor Type	A.C. Resistance R (Ω/km)			Inductance L (mH/km)			Reactance XL (Ω/km)			Impedance Z (Ω/km)		
			Spaced	Touching	Trefoil	Spaced	Touching	Trefoil	Spaced	Touching	Trefoil	Spaced	Touching	Trefoil
NYN	1×1	Solid	21.6567	21.6567	21.6567	0.7840	0.6454	0.5991	0.2463	0.2028	0.1882	21.6581	21.6576	21.6575
	1×1	Non-compact	21.6567	21.6567	21.6567	0.7740	0.6353	0.5891	0.2432	0.1996	0.1851	21.6581	21.6576	21.6575
	1×1.5	Solid	14.4777	14.4777	14.4777	0.7485	0.6099	0.5637	0.2351	0.1916	0.1771	14.4796	14.4790	14.4788
	1×1.5	Non-compact	14.4777	14.4777	14.4777	0.7388	0.6001	0.5539	0.2321	0.1885	0.1740	14.4796	14.4789	14.4787
	1×2.5	Solid	8.8661	8.8661	8.8661	0.7063	0.5677	0.5214	0.2219	0.1783	0.1638	8.8689	8.8679	8.8676
	1×2.5	Non-compact	8.8661	8.8661	8.8661	0.7025	0.5639	0.5176	0.2207	0.1772	0.1626	8.8688	8.8679	8.8676
	1×4	Solid	5.5159	5.5159	5.5159	0.6698	0.5312	0.4850	0.2104	0.1669	0.1524	5.5199	5.5184	5.5180
	1×4	Non-compact	5.5159	5.5159	5.5159	0.6649	0.5263	0.4801	0.2089	0.1653	0.1508	5.5199	5.5184	5.5180
YK NYN	1×6	Non-compact	3.6852	3.6852	3.6852	0.6360	0.4974	0.4512	0.1998	0.1563	0.1417	3.6906	3.6885	3.6879
	1×10	Non-compact	2.1896	2.1896	2.1896	0.5999	0.4612	0.4150	0.1885	0.1449	0.1304	2.1977	2.1944	2.1935
	1×16	Compacted	1.3760	1.3761	1.3761	0.5702	0.4315	0.3853	0.1791	0.1356	0.1210	1.3876	1.3827	1.3814
	1×25	Compacted	0.8700	0.8700	0.8700	0.5450	0.4064	0.3602	0.1712	0.1277	0.1132	0.8866	0.8793	0.8773
	1×35	Compacted	0.6271	0.6272	0.6272	0.5175	0.3789	0.3327	0.1626	0.1190	0.1045	0.6478	0.6384	0.6358
	1×50	Compacted	0.4632	0.4633	0.4634	0.5023	0.3637	0.3175	0.1578	0.1143	0.0997	0.4894	0.4772	0.4740
	1×70	Compacted	0.3210	0.3211	0.3212	0.4862	0.3476	0.3014	0.1527	0.1092	0.0947	0.3555	0.3391	0.3348
	1×95	Compacted	0.2313	0.2315	0.2317	0.4772	0.3386	0.2923	0.1499	0.1064	0.0918	0.2757	0.2548	0.2492
	1×120	Compacted	0.1836	0.1838	0.1840	0.4664	0.3278	0.2816	0.1465	0.1030	0.0885	0.2349	0.2107	0.2420
	1×150	Compacted	0.1490	0.1493	0.1496	0.4663	0.3276	0.2814	0.1465	0.1029	0.0884	0.2090	0.1814	0.1737
	1×185	Compacted	0.1194	0.1198	0.1201	0.4622	0.3235	0.2773	0.1452	0.1016	0.0871	0.1880	0.1571	0.1484
	1×240	Compacted	0.0913	0.0918	0.0922	0.4568	0.3182	0.2719	0.1435	0.1000	0.0854	0.1701	0.1357	0.1257
NYN	1×300	Non-compact	0.0733	0.0740	0.0745	0.4517	0.3131	0.2668	0.1419	0.0984	0.0838	0.1597	0.1231	0.1121
	1×400	Non-compact	0.0580	0.0589	0.0596	0.4465	0.3079	0.2617	0.1403	0.0967	0.0822	0.1518	0.1133	0.1015
	1×500	Non-compact	0.0460	0.0471	0.0480	0.4460	0.3074	0.2612	0.1401	0.0966	0.0821	0.1475	0.1074	0.0951

B

NYY or YK NYY

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



TIS 11 Part 101-2559

CABLE STRUCTURE

Conductor	: Solid and stranded annealed copper wire
Insulation	: Polyvinyl chloride (PVC/C)
Core identification	: Blue, Brown
Inner sheath	: Black polyvinyl chloride (PVC)
Outer sheath	: Black polyvinyl Chloride (PVC/ST4)

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
AC Testing voltage	: 2,500 volts
Reference standard	: TIS 11 Part 101-2559 Table 4

APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

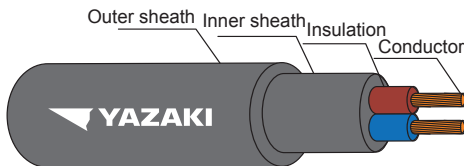
Cable name	Number x Size of conductor (No. x mm ²)	Conductor Type	Insulation thickness nominal (mm)	Inner sheath thickness approx. (mm)	Outer Sheath thickness nominal (mm)	Overall diameter maximum (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ·km)	Continuous current rating in free air at 40°C maximum (A)	Continuous current rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
NY Y	2×1	Solid	0.8	0.8	1.8	12.0	18.1	0.0141	15	21	170	100/C
	2×1	Non-compacted	0.8	0.8	1.8	12.5	18.1	0.0135	15	21	170	100/C
	2×1.5	Solid	0.8	0.8	1.8	12.5	12.1	0.0123	19	27	180	100/C
	2×1.5	Non-compacted	0.8	0.8	1.8	13.0	12.1	0.0116	19	27	200	100/C
	2×2.5	Solid	0.8	0.8	1.8	13.5	7.41	0.0102	26	35	220	100/C
	2×2.5	Non-compacted	0.8	0.8	1.8	14.0	7.41	0.0093	26	35	240	100/C
	2×4	Solid	0.9	0.8	1.8	15.0	4.61	0.0094	35	47	290	100/C
	2×4	Non-compacted	0.9	0.8	1.8	15.5	4.61	0.0085	35	47	310	100/C
YK NYY	2×6	Non-compacted	0.9	0.8	1.8	17.0	3.08	0.0073	44	60	370	100/C
	2×10	Non-compacted	1.1	0.8	1.8	19.5	1.83	0.0069	61	81	550	500/D
	2×16	Compacted	1.1	0.8	2.0	22.5	1.15	0.0057	82	105	1000	1000/D
	2×25	Compacted	1.3	1.2	2.0	27.0	0.727	0.0054	104	136	1000	1000/D
	2×35	Compacted	1.3	1.2	2.0	29.5	0.524	0.0047	129	165	1000	1000/D
	2×50	Compacted	1.5	1.2	2.2	33.5	0.387	0.0046	157	195	1700	1000/D
NYY	2×70	Compacted	1.5	1.5	2.2	38.0	0.268	0.0039	202	239	2300	1000/D
	2×95	Non-compacted	1.7	1.5	2.2	42.5	0.193	0.0038	245	288	3300	500/D
	2×120	Non-compacted	1.7	1.5	2.4	46.5	0.153	0.0034	285	329	4000	500/D
	2×150	Non-compacted	1.9	1.8	2.6	52.0	0.124	0.0034	330	368	4900	500/D
	2×185	Non-compacted	2.1	1.8	2.8	57.0	0.0991	0.0034	378	417	6000	500/D
	2×240	Non-compacted	2.3	2.0	3.0	64.0	0.0754	0.0033	447	481	8000	300/D
	2×300	Non-compacted	2.5	2.0	3.2	70.5	0.0601	0.0032	516	541	9500	300/D

C = Packing in Coil
D = Packing in drum

Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

NYY or YK NYY

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



TIS 11 Part 101-2559

CABLE STRUCTURE

Conductor	: Solid and stranded annealed copper wire
Insulation	: Polyvinyl chloride (PVC/C)
Core identification	: Blue, Brown
Inner sheath	: Black polyvinyl chloride (PVC)
Outer sheath	: Black polyvinyl Chloride (PVC/ST4)

TECHNICAL DATA

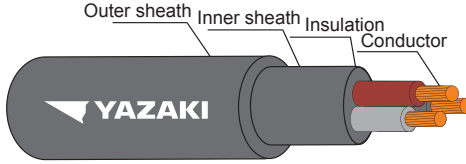
Classification	: Maximum conductor temperature 70°C : Circuit voltage not exceeding 450/750 Volts
Rated voltage	: 450 Volts between Line to Earth : 750 Volts between Line to Line
AC Testing voltage	: 2,500 volts
Reference standard	: TIS 11 Part 101-2559 Table 4

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground

Cable name	Number x Size of conductor (No. x mm ²)	Conductor Type	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
NY Y	2×1	Solid	21.7000	0.3771	0.1185	21.7000
	2×1	Non-compacted	21.7000	0.3651	0.1147	21.7000
	2×1.5	Solid	14.5000	0.3505	0.1101	14.5000
	2×1.5	Non-compacted	14.5000	0.3402	0.1069	14.5000
	2×2.5	Solid	8.8700	0.3238	0.1017	8.8710
	2×2.5	Non-compacted	8.8700	0.3160	0.0993	8.8710
	2×4	Solid	5.5200	0.3135	0.0985	5.5210
	2×4	Non-compacted	5.5200	0.3022	0.0950	5.5210
YK NYY	2×6	Non-compacted	3.6900	0.2869	0.0901	3.6910
	2×10	Non-compacted	2.1900	0.2801	0.0880	2.1920
	2×16	Compacted	1.3800	0.2631	0.0827	1.3820
	2×25	Compacted	0.8700	0.2607	0.0819	0.8738
	2×35	Compacted	0.6272	0.2593	0.0814	0.6325
NY Y	2×50	Compacted	0.4634	0.2604	0.0818	0.4706
	2×70	Compacted	0.3212	0.2506	0.0787	0.3307
	2×95	Non-compacted	0.2317	0.2480	0.0779	0.2444
	2×120	Non-compacted	0.1840	0.2409	0.0757	0.1990
	2×150	Non-compacted	0.1495	0.2402	0.0755	0.1675
	2×185	Non-compacted	0.1201	0.2401	0.0754	0.1418
NY Y	2×240	Non-compacted	0.0922	0.2361	0.0742	0.1183
	2×300	Non-compacted	0.0744	0.2343	0.0736	0.1047

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



 TIS 11 Part 101-2559

CABLE STRUCTURE

Conductor	: Solid and stranded annealed copper wire
Insulation	: Polyvinyl chloride (PVC/C)
Core identification	: Brown, Black, Grey
Inner sheath	: Black polyvinyl chloride (PVC)
Outer sheath	: Black polyvinyl Chloride (PVC/ST4)

TECHNICAL DATA

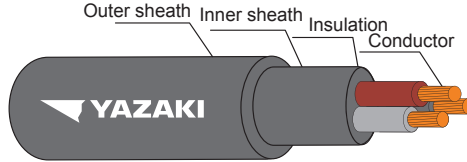
Classification	: Maximum conductor temperature 70°C : Circuit voltage not exceeding 450/750 Volts
Rated voltage	: 450 Volts between Line to Earth : 750 Volts between Line to Line
AC Testing voltage	: 2,500 volts
Reference standard	: TIS 11 Part 101-2559 Table 4

APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

Cable name	Number x Size of conductor (No. x mm ²)	Conductor Type	Insulation thickness nominal (mm)	Inner sheath thickness approx. (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 at 40°C maximum (A)	Continuous current rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
NYY	3×1	Solid	0.8	0.8	1.8	12.5	18.1	0.0141	13	18	180	100/C
	3×1	Non-compacted	0.8	0.8	1.8	13.0	18.1	0.0135	13	18	190	100/C
	3×1.5	Solid	0.8	0.8	1.8	13.0	12.1	0.0123	16	22	210	100/C
	3×1.5	Non-compacted	0.8	0.8	1.8	13.5	12.1	0.0116	16	22	220	100/C
	3×2.5	Solid	0.8	0.8	1.8	14.0	7.41	0.0102	22	30	260	100/C
	3×2.5	Non-compacted	0.8	0.8	1.8	15.0	7.41	0.0093	22	30	270	100/C
	3×4	Solid	0.9	0.8	1.8	15.5	4.61	0.0094	30	39	340	100/C
	3×4	Non-compacted	0.9	0.8	1.8	16.5	4.61	0.0085	30	39	360	100/C
YK NYY	3×6	Non-compacted	0.9	0.8	1.8	18.0	3.08	0.0073	37	50	440	100/C
	3×10	Non-compacted	1.1	0.8	1.8	20.5	1.83	0.0069	52	68	650	500/D
	3×16	Compacted	1.1	1.2	2.0	24.5	1.15	0.0057	70	87	900	1000/D
	3×25	Compacted	1.3	1.2	2.0	28.5	0.727	0.0054	88	128	1300	1000/D
	3×35	Compacted	1.3	1.2	2.0	31.5	0.524	0.0047	110	154	1600	1000/D
NYY	3×50	Compacted	1.5	1.5	2.2	36.0	0.387	0.0046	133	181	2200	1000/D
	3×70	Compacted	1.5	1.5	2.2	40.5	0.268	0.0039	171	223	2900	1000/D
	3×95	Non-compacted	1.7	1.5	2.4	46.0	0.193	0.0038	207	267	4200	500/D
	3×120	Non-compacted	1.7	1.8	2.6	50.5	0.153	0.0034	240	304	5000	500/D
	3×150	Non-compacted	1.9	1.8	2.8	56.0	0.124	0.0034	278	342	6500	500/D
	3×185	Non-compacted	2.1	2.0	3.0	61.5	0.0991	0.0034	317	386	8000	300/D
	3×240	Non-compacted	2.3	2.0	3.2	69.0	0.0754	0.0033	374	448	10000	300/D
	3×300	Non-compacted	2.5	2.2	3.4	76.0	0.0601	0.0032	432	507	12500	200/D

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



 TIS 11 Part 101-2559

CABLE STRUCTURE

Conductor	: Solid and stranded annealed copper wire
Insulation	: Polyvinyl chloride (PVC/C)
Insulation color	: Brown, Black, Grey
Inner sheath	: Black polyvinyl chloride (PVC)
Outer sheath	: Black polyvinyl Chloride (PVC/ST4)

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
AC Testing voltage	: 2,500 volts
Reference standard	: TIS 11 Part 101-2559 Table 4

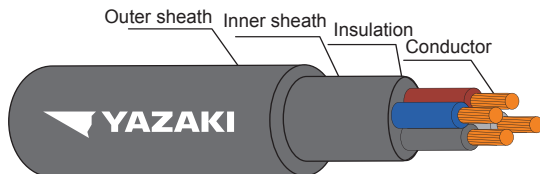
APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

Cable name	Number x Size of conductor (No. x mm ²)	Conductor Type	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
NYY	3×1	Solid	21.7000	0.3771	0.1185	21.7000
	3×1	Non-compacted	21.7000	0.3651	0.1147	21.7000
	3×1.5	Solid	14.5000	0.3505	0.1101	14.5000
	3×1.5	Non-compacted	14.5000	0.3402	0.1069	14.5000
	3×2.5	Solid	8.8700	0.3238	0.1017	8.8710
	3×2.5	Non-compacted	8.8700	0.3160	0.0993	8.8710
	3×4	Solid	5.5200	0.3135	0.0985	5.5210
	3×4	Non-compacted	5.5200	0.3022	0.0950	5.5210
	3×6	Non-compacted	3.6900	0.2869	0.0901	3.6910
YK NYY	3×10	Non-compacted	2.1900	0.2801	0.0880	2.1920
	3×16	Compacted	1.3800	0.2631	0.0827	1.3820
	3×25	Compacted	0.8700	0.2607	0.0819	0.8738
	3×35	Compacted	0.6273	0.2593	0.0814	0.6326
	3×50	Compacted	0.4635	0.2604	0.0818	0.4707
	3×70	Compacted	0.3213	0.2506	0.0787	0.3308
NYY	3×95	Non-compacted	0.2319	0.2480	0.0779	0.2446
	3×120	Non-compacted	0.1843	0.2409	0.0757	0.1992
	3×150	Non-compacted	0.1499	0.2402	0.0755	0.1678
	3×185	Non-compacted	0.1205	0.2401	0.0754	0.1422
	3×240	Non-compacted	0.0928	0.2361	0.0742	0.1188
	3×300	Non-compacted	0.0751	0.2343	0.0736	0.1052

B

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



TIS 11 Part 101-2559

CABLE STRUCTURE

Conductor	: Solid and stranded annealed copper wire
Insulation	: Polyvinyl chloride (PVC/C)
Insulation color	: Blue, Brown, Black, Grey
Inner sheath	: Black polyvinyl chloride (PVC)
Outer sheath	: Black polyvinyl Chloride (PVC/ST4)

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
AC Testing voltage	: 2,500 volts
Reference standard	: TIS 11 Part 101-2559 Table 4

APPLICATION

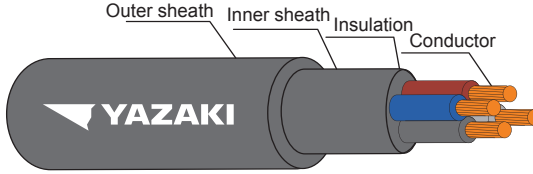
For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

Cable name	Number x Size of conductor (No. x mm ²)	Conductor Type	Insulation thickness nominal (mm)	Inner sheath thickness approx. (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 at 40°C maximum (A)	Continuous current rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
YYY	4×1	Solid	0.8	0.8	1.8	13.5	18.1	0.0141	13	18	210	100/C
	4×1	Non-compacted	0.8	0.8	1.8	14.0	18.1	0.0135	13	18	220	100/C
	4×1.5	Solid	0.8	0.8	1.8	14.0	12.1	0.0123	16	22	240	100/C
	4×1.5	Non-compacted	0.8	0.8	1.8	14.5	12.1	0.0116	16	22	260	100/C
	4×2.5	Solid	0.8	0.8	1.8	15.0	7.41	0.0102	22	30	300	100/C
	4×2.5	Non-compacted	0.8	0.8	1.8	16.0	7.41	0.0093	22	30	320	100/C
	4×4	Solid	0.9	0.8	1.8	17.0	4.61	0.0094	30	39	400	100/C
	4×4	Non-compacted	0.9	0.8	1.8	17.5	4.61	0.0085	30	39	430	100/C
YK YYY	4×6	Non-compacted	0.9	0.8	1.8	19.0	3.08	0.0073	37	50	550	500/D
	4×10	Non-compacted	1.1	0.8	2.0	23.0	1.83	0.0069	52	68	800	500/D
	4×16	Compacted	1.1	1.2	2.0	26.5	1.15	0.0057	70	87	1100	1000/D
	4×25	Compacted	1.3	1.2	2.0	31.0	0.727	0.0054	88	128	1600	1000/D
	4×35	Compacted	1.3	1.5	2.2	35.0	0.524	0.0047	110	154	2100	1000/D
YYY	4×50	Compacted	1.5	1.5	2.2	39.5	0.387	0.0046	133	181	2800	1000/D
	4×70	Compacted	1.5	1.5	2.4	44.5	0.268	0.0039	171	223	3700	800/D
	4×95	Non-compacted	1.7	1.8	2.6	51.5	0.193	0.0038	207	267	5500	500/D
	4×120	Non-compacted	1.7	1.8	2.8	56.0	0.153	0.0034	240	304	6500	500/D
	4×150	Non-compacted	1.9	2.0	3.0	62.0	0.124	0.0034	278	342	8000	300/D
	4×185	Non-compacted	2.1	2.0	3.2	68.0	0.0991	0.0034	317	386	10000	300/D
	4×240	Non-compacted	2.3	2.2	3.4	76.5	0.0754	0.0033	374	448	13000	200/D
	4×300	Non-compacted	2.5	2.2	3.8	85.0	0.0601	0.0032	432	507	16000	200/D

C = Packing in Coil
D = Packing in drum

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m

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



 TIS 11 Part 101-2559

CABLE STRUCTURE

Conductor	: Solid and stranded annealed copper wire
Insulation	: Polyvinyl chloride (PVC/C)
Insulation color	: Blue, Brown, Black, Grey
Inner sheath	: Black polyvinyl chloride (PVC)
Outer sheath	: Black polyvinyl Chloride (PVC/ST4)

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
AC Testing voltage	: 2,500 volts
Reference standard	: TIS 11 Part 101-2559 Table 4

APPLICATION

For Installation exposed, or in raceway, wet or dry location, or direct burial in ground

Cable name	Number x Size of conductor (No. x mm ²)	Conductor Type	A.C. Resistance	Inductance	Reactance	Impedance
			R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
NYY	4×1	Solid	21.7000	0.3771	0.1185	21.7000
	4×1	Non-compacted	21.7000	0.3651	0.1147	21.7000
	4×1.5	Solid	14.5000	0.3505	0.1101	14.5000
	4×1.5	Non-compacted	14.5000	0.3402	0.1069	14.5000
	4×2.5	Solid	8.8700	0.3238	0.1017	8.8710
	4×2.5	Non-compacted	8.8700	0.3160	0.0993	8.8710
	4×4	Solid	5.5200	0.3135	0.0985	5.5210
	4×4	Non-compacted	5.5200	0.3022	0.0950	5.5210
	4×6	Non-compacted	3.6900	0.2869	0.0901	3.6910
YK NYY	4×10	Non-compacted	2.1900	0.2801	0.0880	2.1920
	4×16	Compacted	1.3800	0.2631	0.0827	1.3820
	4×25	Compacted	0.8700	0.2607	0.0819	0.8738
	4×35	Compacted	0.6273	0.2593	0.0814	0.6326
	4×50	Compacted	0.4635	0.2604	0.0818	0.4707
NYY	4×70	Compacted	0.3213	0.2506	0.0787	0.3308
	4×95	Non-compacted	0.2319	0.2480	0.0779	0.2446
	4×120	Non-compacted	0.1843	0.2409	0.0757	0.1992
	4×150	Non-compacted	0.1499	0.2402	0.0755	0.1678
	4×185	Non-compacted	0.1205	0.2401	0.0754	0.1422
	4×240	Non-compacted	0.0928	0.2361	0.0742	0.1188
	4×300	Non-compacted	0.0751	0.2343	0.0736	0.1052