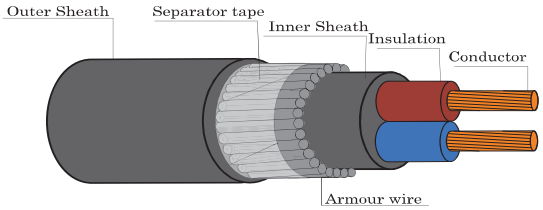
NYY-SWA

450/750 V 70° C PVC INSULATED AND DOUBLE SHEATHED, WITH GALVANIZED STEEL WIRE AMORED POWER CABLE



CABLE STRUCTURE

Conductor : Solid and Stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Core identification 2 Cores : Blue, Brown

Inner Sheath : Black polyvinyl chloride (PVC)

Armor : Galvanized Steel Wires

Sheath : Black polyvinyl choride (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

Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 101-2559 Table 4

B

APPLICATION

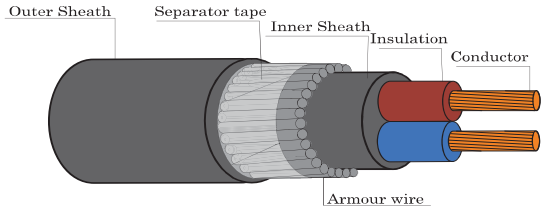
For installation exposed, or in raceway, wet or dry location, or direct burial in ground

Number of cores	Nominal cross sectional area (mm^2)	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Diameter of steel wire amor norminal	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 currunt rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard length per drum (m)
2	1	Solid	0.8	0.8	0.8	1.8	13.5	18.1	0.0141	22	300	500
	1	Stranded	0.8	0.8	0.8	1.8	14.0	18.1	0.0135	22	310	500
	1.5	Solid	0.8	0.8	0.8	1.8	14.0	12.1	0.0123	27	320	500
	1.5	Stranded	0.8	0.8	0.8	1.8	14.5	12.1	0.0116	27	340	500
	2.5	Solid	0.8	0.8	0.8	1.8	15.0	7.4	0.0102	36	370	500
	2.5	Stranded	0.8	0.8	0.8	1.8	15.5	7.4	0.0093	36	400	500
	4	Solid	0.9	0.8	0.8	1.8	16.5	4.6	0.0094	47	460	500
	4	Stranded	0.9	0.8	1.3	1.8	18.0	4.61	0.0085	47	600	500
	6	Stranded	0.9	0.8	1.3	1.8	19.0	3.08	0.0073	61	700	500
	10	Stranded	1.1	0.8	1.3	1.8	22.0	1.83	0.0069	82	950	500
	16	Stranded	1.1	0.8	1.6	1.8	24.0	1.15	0.0057	107	1300	500
	25	Stranded	1.3	1.2	2.0	1.9	30.0	0.727	0.0054	138	2000	500
	35	Stranded	1.3	1.2	2.0	2.0	33.0	0.524	0.0047	168	2400	500
	50	Stranded	1.5	1.2	2.0	2.1	36.0	0.387	0.0046	199	3000	500
	70	Stranded	1.5	1.5	2.0	2.2	41.0	0.268	0.0039	243	3800	500
	95	Stranded	1.7	1.5	2.5	2.4	47.0	0.193	0.0038	294	5000	500
	120	Stranded	1.7	1.5	2.5	2.6	51.0	0.153	0.0034	336	6000	500
	150	Stranded	1.9	1.8	2.5	2.7	56.0	0.124	0.0034	375	7000	500
	185	Stranded	2.1	1.8	2.5	2.9	61.0	0.0991	0.0034	424	8500	300
	240	Stranded	2.3	2.0	2.5	3.1	68.0	0.0754	0.0033	489	10500	300
	300	Stranded	2.5	2.0	3.2	3.4	76.0	0.0601	0.0032	553	13500	200

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-SWA

450/750 V 70° C PVC INSULATED AND DOUBLE SHEATHED, WITH GALVANIZED STEEL WIRE AMORED POWER CABLE



CABLE STRUCTURE

Conductor : Solid and Stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Core identification 2 Cores : Blue, Brown

Inner Sheath : Black polyvinyl chloride (PVC)

Armor : Galvanized Steel Wires

Sheath : Black polyvinyl choride (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

Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 101-2559 Table 4

APPLICATION

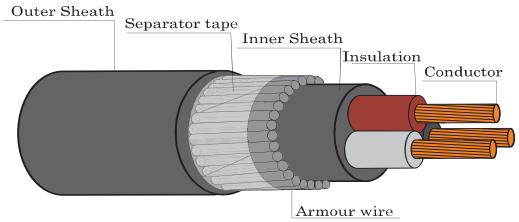
For installation exposed, or in raceway, wet or dry location, or direct burial in ground

B

Number of cores	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)
2	1	Solid	21.7000	0.3771	0.1185	21.7000
	1	Stranded	21.7000	0.3651	0.1147	21.7000
	1.5	Solid	14.5000	0.3505	0.1101	14.5000
	1.5	Stranded	14.5000	0.3402	0.1069	14.5000
	2.5	Solid	8.8700	0.3238	0.1017	8.8710
	2.5	Stranded	8.8700	0.3160	0.0993	8.8710
	4	Solid	5.5200	0.3135	0.0985	5.5210
	4	Stranded	5.5200	0.3022	0.0950	5.5210
	6	Stranded	3.6900	0.2869	0.0901	3.6910
	10	Stranded	2.1900	0.2801	0.0880	2.1920
	16	Stranded	1.3800	0.2631	0.0827	1.3820
	25	Stranded	0.8700	0.2607	0.0819	0.8738
	35	Stranded	0.6272	0.2593	0.0814	0.6325
	50	Stranded	0.4634	0.2604	0.0818	0.4706
	70	Stranded	0.3212	0.2506	0.0787	0.3307
	95	Stranded	0.2317	0.2480	0.0779	0.2444
	120	Stranded	0.1840	0.2409	0.0757	0.1990
	150	Stranded	0.1495	0.2402	0.0755	0.1675
	185	Stranded	0.1201	0.2401	0.0754	0.1418
	240	Stranded	0.0922	0.2361	0.0742	0.1183
	300	Stranded	0.0744	0.2343	0.0736	0.1047

NYY-SWA

450/750 V 70o C PVC INSULATED AND DOUBLE SHEATHED, WITH GALVANIZED STEEL WIRE AMORED POWER CABLE



CABLE STRUCTURE

Conductor : Solid and Stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Core identification 3 Cores : Brown, Black, Grey

Inner Sheath : Black polyvinyl chloride (PVC)

Armor : Galvanized Steel Wires

Sheath : Black polyvinyl choride (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

Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 101-2559 Table 4

B

APPLICATION

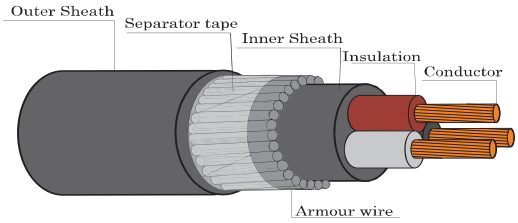
For installation exposed, or in raceway, wet or dry location, or direct burial in ground

Number of cores	Nominal cross sectional area (mm^2)	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Diameter of steel wire amor norminal	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 currunt rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard length per drum (m)
3	1	Solid	0.8	0.8	0.8	1.8	14.0	18.1	0.0141	18	330	500
	1	Stranded	0.8	0.8	0.8	1.8	14.5	18.1	0.0135	18	340	500
	1.5	Solid	0.8	0.8	0.8	1.8	14.5	12.1	0.0123	23	350	500
	1.5	Stranded	0.8	0.8	0.8	1.8	15.0	12.1	0.0116	23	380	500
	2.5	Solid	0.8	0.8	0.8	1.8	15.5	7.41	0.0102	30	420	500
	2.5	Stranded	0.8	0.8	0.8	1.8	16.5	7.41	0.0093	30	450	500
	4	Solid	0.9	0.8	1.3	1.8	18.0	4.61	0.0094	40	650	500
	4	Stranded	0.9	0.8	1.3	1.8	18.5	4.61	0.0085	40	700	500
	6	Stranded	0.9	0.8	1.3	1.8	20.0	3.08	0.0073	51	800	500
	10	Stranded	1.1	0.8	1.6	1.8	23.0	1.83	0.0069	69	1200	500
	16	Stranded	1.1	1.2	1.6	1.8	26.0	1.15	0.0057	88	1600	500
	25	Stranded	1.3	1.2	2.0	1.9	31.0	0.727	0.0054	115	2300	500
	35	Stranded	1.3	1.2	2.0	2.0	34.0	0.524	0.0047	140	2800	500
	50	Stranded	1.5	1.5	2.0	2.2	39.0	0.387	0.0046	168	3600	500
	70	Stranded	1.5	1.5	2.0	2.3	43.0	0.268	0.0039	209	4500	500
	95	Stranded	1.7	1.5	2.5	2.5	50.0	0.193	0.0038	248	6500	500
	120	Stranded	1.7	1.8	2.5	2.7	55.0	0.153	0.0034	283	7500	300
	150	Stranded	1.9	1.8	2.5	2.8	59.0	0.124	0.0034	310	9000	300
	185	Stranded	2.1	2.0	2.5	3.0	65.0	0.0991	0.0034	357	10500	300
	240	Stranded	2.3	2.0	2.5	3.3	73.0	0.0754	0.0033	427	13000	200
	300	Stranded	2.5	2.2	3.2	3.5	81.0	0.0601	0.0032	453	17000	200

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-SWA

450/750 V 70° C PVC INSULATED AND DOUBLE SHEATHED, WITH GALVANIZED STEEL WIRE AMORED POWER CABLE



CABLE STRUCTURE

Conductor : Solid and Stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Core identification 3 Cores : Brown, Black, Grey

Inner Sheath : Black polyvinyl chloride (PVC)

Amor : Galvanized Steel Wires

Sheath : Black polyvinyl choride (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

Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 101-2559 Table 4

APPLICATION

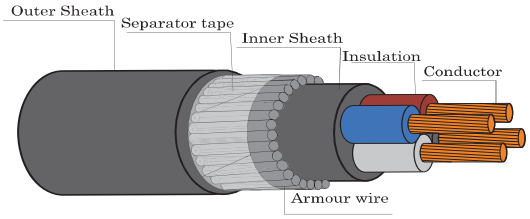
For installation exposed, or in raceway, wet or dry location, or direct burial in ground

Number of cores	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)
3	1	Solid	21.7000	0.3771	0.1185	21.7000
	1	Stranded	21.7000	0.3651	0.1147	21.7000
	1.5	Solid	14.5000	0.3505	0.1101	14.5000
	1.5	Stranded	14.5000	0.3402	0.1069	14.5000
	2.5	Solid	8.8700	0.3238	0.1017	8.8710
	2.5	Stranded	8.8700	0.3160	0.0993	8.8710
	4	Solid	5.5200	0.3135	0.0985	5.5210
	4	Stranded	5.5200	0.3022	0.0950	5.5210
	6	Stranded	3.6900	0.2869	0.0901	3.6910
	10	Stranded	2.1900	0.2801	0.0880	2.1920
	16	Stranded	1.3800	0.2631	0.0827	1.3820
	25	Stranded	0.8700	0.2607	0.0819	0.8738
	35	Stranded	0.6273	0.2593	0.0814	0.6326
	50	Stranded	0.4635	0.2604	0.0818	0.4707
	70	Stranded	0.3213	0.2506	0.0787	0.3308
	95	Stranded	0.2319	0.2480	0.0779	0.2446
	120	Stranded	0.1843	0.2409	0.0757	0.1992
	150	Stranded	0.1499	0.2402	0.0755	0.1678
	185	Stranded	0.1205	0.2401	0.0754	0.1422
	240	Stranded	0.0928	0.2361	0.0742	0.1188
	300	Stranded	0.0751	0.2343	0.0736	0.1052

B

NYY-SWA

450/750 V 70o C PVC INSULATED AND DOUBLE SHEATHED, WITH GALVANIZED STEEL WIRE AMORED POWER CABLE



CABLE STRUCTURE

Conductor : Solid and Stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Core identification 4 Cores : Blue, Brown, Black, Grey

Inner Sheath : Black polyvinyl chloride (PVC)

Amor : Galvanized Steel Wires

Sheath : Black polyvinyl choride (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

Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 101-2559 Table 4

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APPLICATION

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

Number of cores	Nominal cross sectional area (mm^2)	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Diameter of steel wire amor norminal	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 currunt rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard length per drum (m)
4	1	Solid	0.8	0.8	0.8	1.8	15.0	18.1	0.0141	18	360	500
	1	Stranded	0.8	0.8	0.8	1.8	15.0	18.1	0.0135	18	380	500
	1.5	Solid	0.8	0.8	0.8	1.8	15.5	12.1	0.0123	23	400	500
	1.5	Stranded	0.8	0.8	0.8	1.8	16.0	12.1	0.0116	23	420	500
	2.5	Solid	0.8	0.8	0.8	1.8	16.5	7.41	0.0102	30	480	500
	2.5	Stranded	0.8	0.8	1.3	1.8	18.0	7.41	0.0093	30	650	500
	4	Solid	0.9	0.8	1.3	1.8	19.0	4.61	0.0094	40	750	500
	4	Stranded	0.9	0.8	1.3	1.8	20.0	4.61	0.0085	40	800	500
	6	Stranded	0.9	0.8	1.3	1.8	21.0	3.08	0.0073	51	950	500
	10	Stranded	1.1	0.8	1.6	1.8	25.0	1.83	0.0069	69	1400	500
	16	Stranded	1.1	1.2	1.6	1.8	28.0	1.15	0.0057	88	1800	500
	25	Stranded	1.3	1.2	2.0	2.0	34.0	0.727	0.0054	115	2800	500
	35	Stranded	1.3	1.5	2.0	2.1	38.0	0.524	0.0047	140	3500	500
	50	Stranded	1.5	1.5	2.0	2.3	43.0	0.387	0.0046	168	4300	500
	70	Stranded	1.5	1.5	2.5	2.5	49.0	0.268	0.0039	209	6000	500
	95	Stranded	1.7	1.8	2.5	2.7	55.0	0.193	0.0038	248	8000	300
	120	Stranded	1.7	1.8	2.5	2.9	60.0	0.153	0.0034	283	9000	300
	150	Stranded	1.9	2.0	2.5	3.0	65.0	0.124	0.0034	310	11000	300
	185	Stranded	2.1	2.0	2.5	3.2	72.0	0.0991	0.0034	357	13000	200
	240	Stranded	2.3	2.2	3.2	3.5	81.0	0.0754	0.0033	427	17500	100
	300	Stranded	2.5	2.2	3.2	3.8	89.0	0.0601	0.0032	453	21000	100

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

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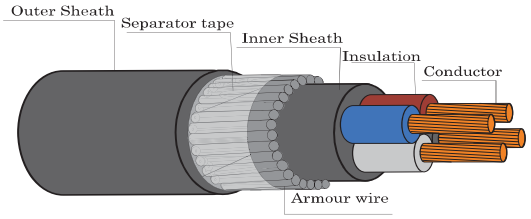

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Core identification 4 Cores : Blue, Brown, Black, Grey

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Reference standard : TIS 11 Part 101-2559 Table 4

APPLICATION

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Number of cores	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)
4	1	Solid	21.7000	0.3771	0.1185	21.7000
	1	Stranded	21.7000	0.3651	0.1147	21.7000
	1.5	Solid	14.5000	0.3505	0.1101	14.5000
	1.5	Stranded	14.5000	0.3402	0.1069	14.5000
	2.5	Solid	8.8700	0.3238	0.1017	8.8710
	2.5	Stranded	8.8700	0.3160	0.0993	8.8710
	4	Solid	5.5200	0.3135	0.0985	5.5210
	4	Stranded	5.5200	0.3022	0.0950	5.5210
	6	Stranded	3.6900	0.2869	0.0901	3.6910
	10	Stranded	2.1900	0.2801	0.0880	2.1920
	16	Stranded	1.3800	0.2631	0.0827	1.3820
	25	Stranded	0.8700	0.2607	0.0819	0.8738
	35	Stranded	0.6273	0.2593	0.0814	0.6326
	50	Stranded	0.4635	0.2604	0.0818	0.4707
	70	Stranded	0.3213	0.2506	0.0787	0.3308
	95	Stranded	0.2319	0.2480	0.0779	0.2446
	120	Stranded	0.1843	0.2409	0.0757	0.1992
	150	Stranded	0.1499	0.2402	0.0755	0.1678
	185	Stranded	0.1205	0.2401	0.0754	0.1422
	240	Stranded	0.0928	0.2361	0.0742	0.1188
	300	Stranded	0.0751	0.2343	0.0736	0.1052