COPPER CONDUCTOR CABLES
◈ Low Voltage Power Cables ◈

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500V-NYY-SWA

300/500 V 70°C PVC INSULATED AND DOUBLE SHEATHED, WITH GALVANIZED STEEL WIRES ARMORED POWER CABLE

CABLE STRUCTURE

Conductor : Solid and stranded annealed copper, Sizes 1.5 mm^2 up to 35 mm^2

Insulation : Polyvinyl chloride (PVC/C)

Core identification

2 Cores : Blue and Brown
3 Cores : Brown, Black and Grey
4 Cores : Blue, Brown, Black and Grey

Other colors are available on customer request

Armor : Galvanized Steel Wires

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 300/500 Volts
300 Volts between Line-to-Earth
500 Volts between Line-to-Line

Testing voltage : 2,000 Volts

Reference standard : TIS 11 Part 4-2553

APPLICATION

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

Number of core	Nominal cross sectional area (mm²)	Number and diameter of wire (No./mm)	Insulation thickness nominal (mm)	Inner sheath thickness nominal (mm)	Diameter of steel wire armor nominal (mm)	Outer sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating in underground maximum (A)	Cable weight approx. (kg/km)	Standard length (m)
2	1.5	1/1.38	0.7	0.4	0.8	1.8	12.5	12.1	0.011	29	300	500/D
	1.5	7/0.53	0.7	0.4	0.8	1.8	13.0	12.1	0.010	29	310	500/D
	2.5	1/1.78	0.8	0.4	0.8	1.8	14.0	7.41	0.010	38	320	500/D
	2.5	7/0.67	0.8	0.4	0.8	1.8	14.5	7.41	0.009	38	340	500/D
	4	1/2.25	0.8	0.4	0.8	1.8	15.0	4.61	0.0085	50	370	500/D
	4	7/0.85	0.8	0.4	0.8	1.8	15.5	4.61	0.0077	50	400	500/D
	6	7/1.04	0.8	0.4	0.8	1.8	17.5	3.08	0.0065	63	600	500/D
	10	7/1.35	1.0	0.6	1.25	1.8	21.0	1.83	0.0065	84	950	500/D
	16	7/1.70	1.0	0.6	1.6	1.8	24.0	1.15	0.0052	109	1,300	500/D
	25	7/2.14	1.2	0.8	1.6	1.8	28.0	0.727	0.0050	141	2,000	500/D
	35	19/1.53	1.2	1.0	2.0	1.9	31.0	0.524	0.0044	169	2,400	500/D

D : Packing in drum

500V-NYY-SWA

300/500 V 70°C PVC INSULATED AND DOUBLE SHEATHED, WITH GALVANIZED STEEL WIRES ARMORED POWER CABLE

CABLE STRUCTURE

Conductor : Solid and stranded annealed copper, Sizes 1.5 mm^2 up to 35 mm^2

Insulation : Polyvinyl chloride (PVC/C)

Core identification

- 2 Cores : Blue and Brown
- 3 Cores : Brown, Black and Grey
- 4 Cores : Blue, Brown, Black and Grey

Other colors are available on customer request

Armor : Galvanized Steel Wires

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 300/500 Volts
300 Volts between Line-to-Earth
500 Volts between Line-to-Line

Testing voltage : 2,000 Volts

Reference standard : TIS 11 Part 4-2553

APPLICATION

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

Number of core	Nominal cross sectional area (mm²)	Number and diameter of wire (No./mm)	Insulation thickness nominal (mm)	Inner sheath thickness nominal (mm)	Diameter of steel wire armor nominal (mm)	Outer sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating in underground maximum (A)	Cable weight approx. (kg/km)	Standard length (m)
3	1.5	1/1.38	0.7	0.4	0.8	1.8	13.0	12.1	0.011	25	330	500/D
	1.5	7/0.53	0.7	0.4	0.8	1.8	13.5	12.1	0.010	25	340	500/D
	2.5	1/1.78	0.8	0.4	0.8	1.8	14.5	7.41	0.010	33	350	500/D
	2.5	7/0.67	0.8	0.4	0.8	1.8	15.0	7.41	0.009	33	380	500/D
	4	1/2.25	0.8	0.4	0.8	1.8	15.5	4.61	0.0085	43	420	500/D
	4	7/0.85	0.8	0.4	0.8	1.8	16.0	4.61	0.0077	43	450	500/D
	6	7/1.04	0.8	0.4	1.25	1.8	18.5	3.08	0.0065	54	700	500/D
	10	7/1.35	1.0	0.6	1.25	1.8	22.0	1.83	0.0065	71	1,200	500/D
	16	7/1.70	1.0	0.8	1.6	1.8	25.0	1.15	0.0052	93	1,600	500/D
	25	7/2.14	1.2	0.8	2.0	1.9	30.0	0.727	0.0050	120	2,300	500/D
	35	19/1.53	1.2	1.0	2.0	2.0	33.0	0.524	0.0044	144	2,800	500/D

D : Packing in drum

500V-NYY-SWA

300/500 V 70°C PVC INSULATED AND DOUBLE SHEATHED, WITH GALVANIZED STEEL WIRES ARMORED POWER CABLE

CABLE STRUCTURE

Conductor : Solid and stranded annealed copper, Sizes 1.5 mm^2 up to 35 mm^2

Insulation : Polyvinyl chloride (PVC/C)

Core identification

2 Cores : Blue and Brown
3 Cores : Brown, Black and Grey
4 Cores : Blue, Brown, Black and Grey

Other colors are available on customer request

Armor : Galvanized Steel Wires

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 300/500 Volts
300 Volts between Line-to-Earth
500 Volts between Line-to-Line

Testing voltage : 2,000 Volts

Reference standard : TIS 11 Part 4-2553

APPLICATION

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

Number of core	Nominal cross sectional area (mm²)	Number and diameter of wire (No./mm)	Insulation thickness nominal (mm)	Inner sheath thickness nominal (mm)	Diameter of steel wire armor nominal (mm)	Outer sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating in underground maximum (A)	Cable weight approx. (kg/km)	Standard length (m)
4	1.5	1/1.38	0.7	0.4	0.8	1.8	13.5	12.1	0.011	25	360	500/D
	1.5	7/0.53	0.7	0.4	0.8	1.8	14.0	12.1	0.010	25	380	500/D
	2.5	1/1.78	0.8	0.4	0.8	1.8	15.5	7.41	0.010	33	400	500/D
	2.5	7/0.67	0.8	0.4	0.8	1.8	16.0	7.41	0.009	33	420	500/D
	4	1/2.25	0.8	0.4	1.25	1.8	17.5	4.61	0.0085	43	480	500/D
	4	7/0.85	0.8	0.4	1.25	1.8	18.5	4.61	0.0077	43	650	500/D
	6	7/1.04	0.8	0.6	1.25	1.8	20.0	3.08	0.0065	54	800	500/D
	10	7/1.35	1.0	0.6	1.6	1.8	24.0	1.83	0.0065	71	1,400	500/D
	16	7/1.70	1.0	0.8	1.6	1.8	27.0	1.15	0.0052	93	1,800	500/D
	25	7/2.14	1.2	1.0	2.0	2.0	33.0	0.727	0.0050	120	2,800	500/D
	35	19/1.53	1.2	1.0	2.0	2.1	36.0	0.524	0.0044	144	3,500	500/D

D : Packing in drum

NYY-SWA

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

CABLE STRUCTURE

Conductor : Solid and stranded annealed copper, Sizes 50 mm^2 up to 300 mm^2

Insulation : Polyvinyl chloride (PVC/C)

Core identification

2 Cores : Blue and Brown
3 Cores : Brown, Black and Grey
4 Cores : Blue, Brown, Black and Grey

Other colors are available on customer request

Armor : Galvanized Steel Wires

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
450 Volts between Line-to-Earth
750 Volts between Line-to-Line

Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 101-2553

APPLICATION

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

Number of core	Nominal cross sectional area (mm²)	Number and diameter of wire (No./mm)	Insulation thickness nominal (mm)	Inner sheath thickness nominal (mm)	Diameter of steel wire armor nominal (mm)	Outer sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating in underground maximum (A)	Cable weight approx. (kg/km)	Standard length (m)
2	50	19/1.78	1.5	1.2	2.0	2.1	36.0	0.387	0.0046	199	3,000	500/D
	70	19/2.14	1.5	1.5	2.0	2.2	41.0	0.268	0.0039	244	4,000	500/D
	95	19/2.52	1.7	1.5	2.5	2.4	47.0	0.193	0.0038	292	5,000	500/D
	120	37/2.03	1.7	1.5	2.5	2.6	51.0	0.153	0.0034	334	6,000	500/D
	150	37/2.25	1.9	1.8	2.5	2.7	56.0	0.124	0.0034	373	7,000	500/D
	185	37/2.52	2.1	1.8	2.5	2.9	61.0	0.099	0.0034	420	8,500	300/D
	240	61/2.25	2.3	2.0	2.5	3.1	68.0	0.075	0.0033	483	10,500	300/D
	300	61/2.52	2.5	2.0	3.15	3.4	76.0	0.0601	0.0032	538	13,500	200/D

D : Packing in drum

NYY-SWA

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

CABLE STRUCTURE

Conductor : Solid and stranded annealed copper, Sizes 50 mm^2 up to 300 mm^2

Insulation : Polyvinyl chloride (PVC/C)

Core identification

- 2 Cores : Blue and Brown
- 3 Cores : Brown, Black and Grey
- 4 Cores : Blue, Brown, Black and Grey

Other colors are available on customer request

Armor : Galvanized Steel Wires

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
450 Volts between Line-to-Earth
750 Volts between Line-to-Line

Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 101-2553

APPLICATION

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

Number of core	Nominal cross sectional area (mm²)	Number and diameter of wire (No./mm)	Insulation thickness nominal (mm)	Inner sheath thickness nominal (mm)	Diameter of steel wire armor nominal (mm)	Outer sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating in underground maximum (A)	Cable weight approx. (kg/km)	Standard length (m)
3	50	19/1.78	1.5	1.5	2.0	2.2	39.0	0.387	0.0046	168	3,600	500/D
	70	19/2.14	1.5	1.5	2.0	2.3	43.0	0.268	0.0039	209	4,600	500/D
	95	19/2.52	1.7	1.5	2.5	2.5	50.0	0.193	0.0038	248	6,500	500/D
	120	37/2.03	1.7	1.8	2.5	2.7	55.0	0.153	0.0034	283	7,500	300/D
	150	37/2.25	1.9	1.8	2.5	2.8	59.0	0.124	0.0034	310	9,000	300/D
	185	37/2.52	2.1	2.0	2.5	3.0	65.0	0.0991	0.0034	357	10,500	300/D
	240	61/2.25	2.3	2.0	2.5	3.3	73.0	0.0754	0.0033	427	13,000	200/D
	300	61/2.52	2.5	2.2	3.15	3.5	81.0	0.0601	0.0032	453	17,000	200/D

D : Packing in drum

NYY-SWA

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

CABLE STRUCTURE

Conductor : Solid and stranded annealed copper, Sizes 50 mm^2 up to 300 mm^2

Insulation : Polyvinyl chloride (PVC/C)

Core identification

2 Cores : Blue and Brown
3 Cores : Brown, Black and Grey
4 Cores : Blue, Brown, Black and Grey

Other colors are available on customer request

Armor : Galvanized Steel Wires

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
450 Volts between Line-to-Earth
750 Volts between Line-to-Line

Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 101-2553

APPLICATION

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

Number of core	Nominal cross sectional area (mm²)	Number and diameter of wire (No./mm)	Insulation thickness nominal (mm)	Inner sheath thickness nominal (mm)	Diameter of steel wire armor nominal (mm)	Outer sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating in underground maximum (A)	Cable weight approx. (kg/km)	Standard length (m)
4	50	19/1.78	1.5	1.5	2.0	2.3	43.0	0.387	0.0046	168	4,300	500/D
	70	19/2.14	1.5	1.5	2.0	2.5	49.0	0.268	0.0039	209	6,000	500/D
	95	19/2.52	1.7	1.8	2.5	2.7	55.0	0.193	0.0038	248	8,000	300/D
	120	37/2.03	1.7	1.8	2.5	2.9	60.0	0.153	0.0034	283	9,000	300/D
	150	37/2.25	1.9	2.0	2.5	3.	65.0	0.124	0.0034	310	11,000	300/D
	185	37/2.52	2.1	2.0	2.5	3.2	72.0	0.0991	0.0034	357	13,000	200/D
	240	61/2.25	2.3	2.2	3.15	3.5	81.0	0.0754	0.0033	427	17,500	150/D
	300	61/2.52	2.5	2.2	3.15	3.8	89.0	0.0601	0.0032	453	21,000	150/D

D : Packing in drum

500V-NYCY

300/500 V 70°C PVC INSULATED AND DOUBLE SHEATHED, WITH CONCENTRIC CONDUCTORS POWER CABLE

CABLE STRUCTURE

Phase Conductor : Concentric stranded annealed copper wires, Sizes 1.5 mm^2 up to 35 mm^2

Concentric shield : Annealed copper wires with helix of copper tape fully covers

Insulation : Polyvinyl chloride (PVC/C)

Core identification

3 Cores : Brown, Black and Grey

Other colors are available on customer request

Inner Sheath : Polyvinyl chloride (PVC)

Outer Sheath : Black polyvinyl chloride (PVC/ST4)

TECHNICAL DATA

Classification : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 300/500 Volts
300 Volts between Line-to-Earth
500 Volts between Line-to-Line

Testing voltage : 2,000 Volts

Reference standard : TIS 11 Part 4-2553

APPLICATION

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

Nominal cross sectional area (mm^2)		Number and diameter of wire (No./mm)		Insulation thickness nominal	Inner sheath thickness nominal	Outer thickness nominal	Overall diameter approx.	Conductor resistance at 20°C maximum	Insulation resistance at 70°C minimum	continuous current rating in free air maximum	Cable weight approx.	Standard length
Phase	Concentric shield	Phase	Concentric shield	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
3x1.5	1.5	1/1.38	8/0.50	0.7	0.4	1.2	11.5	12.1	0.011	25	180	500/D
3x1.5	1.5	7/0.53	8/0.50	0.7	0.4	1.2	12.0	12.1	0.010	25	190	500/D
3x2.5	2.5	1/1.78	13/0.50	0.8	0.4	1.2	13.0	7.41	0.010	33	250	500/D
3x2.5	2.5	7/0.67	13/0.50	0.8	0.4	1.2	14.0	7.41	0.009	33	260	500/D
3x4	4	1/2.25	14/0.60	0.8	0.4	1.2	14.5	4.61	0.0085	43	320	500/D
3x4	4	7/0.85	14/0.60	0.8	0.4	1.2	15.0	4.61	0.0077	43	340	500/D
3x6	6	7/1.04	21/0.60	0.8	0.4	1.4	19.5	3.08	0.0065	54	460	500/D
3x10	10	7/1.35	20/0.80	1.0	0.6	1.4	20.0	1.83	0.0065	71	700	500/D
3x16	16	7/1.70	19/1.04	1.0	0.8	1.4	24.0	1.15	0.0052	93	1,000	500/D
3x25	16	7/2.14	19/1.04	1.2	0.8	1.6	28.0	0.727	0.0050	120	1,500	500/D
3x35	16	19/1.53	19/1.04	1.2	1.0	1.6	31.0	0.524	0.0044	144	1,800	500/D

D : Packing in drum

NYCY

450/750 V 70°C PVC INSULATED AND DOUBLE SHEATHED, WITH CONCENTRIC CONDUCTORS POWER CABLE

CABLE STRUCTURE

Phase Conductor : Concentric stranded annealed copper wires, Sizes 50 mm^2 up to 300 mm^2

Concentric shield : Annealed copper wires with helix of copper tape fully covers

Insulation : Polyvinyl chloride (PVC/C)

Core identification

3 Cores : Brown, Black and Grey

Other colors are available on customer request

Inner Sheath : 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
450 Volts between Line-to-Earth
750 Volts between Line-to-Line

Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 101-2553

APPLICATION

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

Nominal cross sectional area (mm^2)		Number and diameter of wire (No./mm)		Insulation thickness nominal	Inner sheath thickness nominal	Outer thickness nominal	Overall diameter approx.	Conductor resistance at 20°C maximum	Insulation resistance at 70°C minimum	continuous current rating in free air maximum	Cable weight approx.	Standard length
Phase	Concentric shield	Phase	Concentric shield	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
3x50	25	19/1.78	25/1.13	1.5	1.5	2.2	38.0	0.387	0.0046	142	2,600	500/D
3x50	35	19/1.78	23/1.38	1.5	1.5	2.2	39.0	0.387	0.0046	142	2,700	500/D
3x70	35	19/2.14	23/1.38	1.5	1.5	2.2	43.0	0.268	0.0039	178	3,500	500/D
3x70	50	19/2.14	27/1.53	1.5	1.5	2.2	43	0.268	0.0039	178	3,600	500/D
3x95	50	19/2.52	27/1.53	1.7	1.5	2.4	48	0.193	0.0038	219	4,700	500/D
3x95	70	19/2.52	31/1.70	1.7	1.5	2.4	49	0.193	0.0038	219	5,000	500/D
3x120	70	37/2.03	31/1.70	1.7	1.8	2.6	53	0.153	0.0034	254	6,000	500/D
3x120	95	37/2.03	36/1.83	1.7	1.8	2.6	54	0.153	0.0034	254	6,000	500/D
3x150	70	37/2.25	31/1.70	1.9	1.8	2.8	58	0.124	0.0034	290	7,000	300/D
3x150	95	37/2.25	36/1.83	1.9	1.8	2.8	58	0.1240	0.0034	290	7,500	300/D
3x150	120	37/2.25	37/2.03	1.9	1.8	2.8	59	0.1240	0.0034	290	7,500	300/D
3x185	95	37/2.52	36/1.83	2.1	2.0	3.0	64	0.0991	0.0034	332	9,000	300/D
3x185	120	37/2.52	37/2.03	2.1	2.0	3.0	65	0.0991	0.0034	332	9,000	300/D
3x240	120	61/2.25	37/2.03	2.3	2.0	3.2	72	0.0601	0.0033	389	11,500	200/D
3x300	150	61/2.52	41/2.14	2.5	2.2	3.4	79	0.0601	0.0032	445	14,000	200/D

D : Packing in drum

0.6/1KV-CV

TIS 2143-2546, IEC 60502-1

0.6/1 kV 90°C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED POWER CABLE

CABLE STRUCTURE

Conductor : Concentric Stranded and compacted round annealed copper
Single-core : Sizes 1.5 mm² up to 1,000 mm²
Multi-cores : Sizes 1.5 mm² up to 400 mm²

Insulation : Cross-linked Polyethylene (XLPE)

Core identification
Single-core : Natural (Translucent)
2 Cores : Blue and Brown
3 Cores : Brown, Black and Grey
4 Cores : Blue, Brown, Black and Grey
Other colors are available on customer request

Sheath : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts
Rated voltage (U_0/U) 0.6/1 kV
600 Volts between Line-to-Earth
1,000 Volts between Line-to-Line

Testing voltage : 3,500 Volts

Reference standard : IEC 60502-1,IEC 60228,IEC 60332-1
TIS 2143-2546

APPLICATION

Use for installation in open tray, conduit, underground duct trench or direct burial in ground, at wet or dry location.

Number of core	Nominal cross sectional area (mm²)	Number of wires minimum (No./mm)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ-km)	Continuous current rating in free air maximum (A)	Cable weight approx. (kg/km)	Standard length (m)
1	1.5	7/0.53	0.7	1.4	6.3	12.1	2,500	31	50	500/D
	2.5	7/0.67	0.7	1.4	6.8	7.41	2,100	42	60	500/D
	4	7/0.85	0.7	1.4	7.3	4.61	1,700	55	80	500/D
	6	7/1.04	0.7	1.4	7.9	3.08	1,450	69	100	500/D
	10	6	0.7	1.4	8.4	1.83	1,250	93	140	500/D
	16	6	0.7	1.4	9.4	1.15	1,000	123	200	500/D
	25	6	0.9	1.4	11.0	0.727	1,050	164	300	500/D
	35	6	0.9	1.4	12.0	0.524	900	202	400	500/D
	50	6	1.0	1.4	13.5	0.387	850	245	500	500/D
	70	12	1.1	1.4	15.0	0.268	800	309	750	500/D
	95	15	1.1	1.5	17.5	0.193	650	383	1,000	500/D
	120	18	1.2	1.5	19.0	0.153	650	446	1,200	500/D
	150	18	1.4	1.6	21	0.124	650	510	1,500	500/D
	185	30	1.6	1.6	23	0.0991	650	591	1,900	500/D
	240	34	1.7	1.7	26	0.0754	650	705	2,500	500/D
	300	34	1.8	1.8	29	0.0601	600	814	3,100	500/D
	400	53	2.0	1.9	32	0.0470	600	950	3,900	500/D
	500	53	2.2	2.0	36	0.0366	600	1,111	5,000	500/D
	630	53	2.4	2.2	40	0.0283	550	1,293	6,500	500/D
	800	53	2.6	2.3	45	0.0221	550	1,486	8,500	300/D
	1,000	53	2.8	2.4	51	0.0176	500	1,701	10,500	300/D

D : Packing in drum

0.6/1KV-CV

TIS 2143-2546, IEC 60502-1

0.6/1 kV 90°C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED POWER CABLE

CABLE STRUCTURE

Conductor : Concentric Stranded and compacted round annealed copper
- Single-core : Sizes 1.5 mm² up to 1,000 mm²
- Multi-cores : Sizes 1.5 mm² up to 400 mm²

Insulation : Cross-linked Polyethylene (XLPE)

Core identification
- Single-core : Natural (Translucent)
- 2 Cores : Blue and Brown
- 3 Cores : Brown, Black and Grey
- 4 Cores : Blue, Brown, Black and Grey

Other colors are available on customer request

Sheath : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts
Rated voltage (U_0/U) 0.6/1 kV
600 Volts between Line-to-Earth
1,000 Volts between Line-to-Line

Testing voltage : 3,500 Volts

Reference standard : IEC 60502-1,IEC 60228,IEC 60332-1
TIS 2143-2546

APPLICATION

Use for installation in open tray, conduit, underground duct trench or direct burial in ground, at wet or dry location.

Number of core	Nominal cross sectional area (mm²)	Number of wires minimum (No./mm)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ-km)	Continuous current rating in free air maximum (A)	Cable weight approx. (kg/km)	Standard length (m)
2	1.5	7/0.53	0.7	1.8	11.0	12.1	2,500	27	130	500/D
	2.5	7/0.67	0.7	1.8	12.0	7.41	2,100	35	160	500/D
	4	7/0.85	0.7	1.8	13.0	4.61	1,700	46	200	500/D
	6	7/1.04	0.7	1.8	14.0	3.08	1,450	59	260	500/D
	10	6	0.7	1.8	15.0	1.83	1,250	79	340	500/D
	16	6	0.7	1.8	17.0	1.15	1,000	106	480	500/D
	25	6	0.9	1.8	20	0.727	1,050	141	700	500/D
	35	6	0.9	1.8	23	0.524	900	173	900	500/D
	50	6	1.0	1.8	25	0.387	850	213	1,200	500/D
	70	12	1.1	1.8	29	0.268	800	268	1,700	500/D
	95	15	1.1	2.0	33	0.193	700	329	2,300	500/D
	120	18	1.2	2.1	37	0.153	700	381	2,800	500/D
	150	18	1.4	2.2	41	0.124	700	436	3,500	500/D
	185	30	1.6	2.3	45	0.0991	700	503	4,300	500/D
	240	34	1.7	2.5	51	0.0754	650	593	5,500	500/D
	300	34	1.8	2.7	56	0.0601	600	676	7,000	300/D
	400	53	2.0	2.9	63	0.0470	600	777	9,000	300/D

D : Packing in drum

0.6/1KV-CV

TIS 2143-2546, IEC 60502-1

0.6/1 kV 90°C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED POWER CABLE

CABLE STRUCTURE

Conductor : Concentric Stranded and compacted round annealed copper
Single-core : Sizes 1.5 mm² up to 1,000 mm²
Multi-cores : Sizes 1.5 mm² up to 400 mm²

Insulation : Cross-linked Polyethylene (XLPE)

Core identification
Single-core : Natural (Translucent)
2 Cores : Blue and Brown
3 Cores : Brown, Black and Grey
4 Cores : Blue, Brown, Black and Grey
Other colors are available on customer request

Sheath : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts
Rated voltage (U_0/U) 0.6/1 kV
600 Volts between Line-to-Earth
1,000 Volts between Line-to-Line

Testing voltage : 3,500 Volts

Reference standard : IEC 60502-1,IEC 60228,IEC 60332-1
TIS 2143-2546

APPLICATION

Use for installation in open tray, conduit, underground duct trench or direct burial in ground, at wet or dry location.

Number of core	Nominal cross sectional area (mm²)	Number of wires minimum (No./mm)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ-km)	Continuous current rating in free air maximum (A)	Cable weight approx. (kg/km)	Standard length (m)
3	1.5	7/0.53	0.7	1.8	11.5	12.1	2,500	22	150	500/D
	2.5	7/0.67	0.7	1.8	12.5	7.41	2,100	29	190	500/D
	4	7/0.85	0.7	1.8	13.5	4.61	1,700	39	240	500/D
	6	7/1.04	0.7	1.8	15.0	3.08	1,450	49	320	500/D
	10	6	0.7	1.8	16.0	1.83	1,250	66	440	500/D
	16	6	0.7	1.8	18.0	1.15	1,000	88	650	500/D
	25	6	0.9	1.8	22	0.727	1,050	118	950	500/D
	35	6	0.9	1.8	24	0.524	900	145	1,300	500/D
	50	6	1.0	1.8	27	0.387	850	176	1,600	500/D
	70	12	1.1	1.9	31	0.268	800	222	2,300	500/D
	95	15	1.1	2.0	36	0.193	700	272	3,100	500/D
	120	18	1.2	2.1	39	0.153	700	320	4,000	500/D
	150	18	1.4	2.3	44	0.124	700	366	4,900	500/D
	185	30	1.6	2.4	49	0.0991	700	422	6,000	500/D
	240	34	1.7	2.6	55	0.0754	650	498	8,000	300/D
	300	34	1.8	2.8	61	0.0601	600	567	10,000	300/D
	400	53	2.0	3.1	68	0.0470	600	652	12,500	200/D

D : Packing in drum

0.6/1KV-CV

TIS 2143-2546, IEC 60502-1

0.6/1 kV 90°C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED POWER CABLE

CABLE STRUCTURE

Conductor : Concentric Stranded and compacted round annealed copper
- Single-core : Sizes 1.5 mm² up to 1,000 mm²
- Multi-cores : Sizes 1.5 mm² up to 400 mm²

Insulation : Cross-linked Polyethylene (XLPE)

Core identification
- Single-core : Natural (Translucent)
- 2 Cores : Blue and Brown
- 3 Cores : Brown, Black and Grey
- 4 Cores : Blue, Brown, Black and Grey

Other colors are available on customer request

Sheath : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts
Rated voltage (U_0/U) 0.6/1 kV
600 Volts between Line-to-Earth
1,000 Volts between Line-to-Line

Testing voltage : 3,500 Volts

Reference standard : IEC 60502-1,IEC 60228,IEC 60332-1
TIS 2143-2546

APPLICATION

Use for installation in open tray, conduit, underground duct trench or direct burial in ground, at wet or dry location.

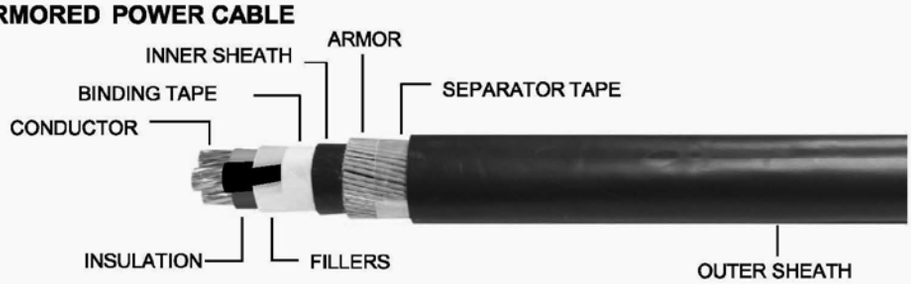
Number of core	Nominal cross sectional area (mm²)	Number of wires minimum (No./mm)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ-km)	Continuous current rating in free air maximum (A)	Cable weight approx. (kg/km)	Standard length (m)
4	1.5	7/0.53	0.7	1.8	12.0	12.1	2,500	22	180	500/D
	2.5	7/0.67	0.7	1.8	13.5	7.41	2,100	29	230	500/D
	4	7/0.85	0.7	1.8	14.5	4.61	1,700	39	300	500/D
	6	7/1.04	0.7	1.8	16.0	3.08	1,450	49	400	500/D
	10	6	0.7	1.8	17.5	1.83	1,250	66	550	500/D
	16	6	0.7	1.8	20	1.15	1,000	88	800	500/D
	25	6	0.9	1.8	24	0.727	1,050	118	1,200	500/D
	35	6	0.9	1.8	27	0.524	900	145	1,600	500/D
	50	6	1.0	1.9	30	0.387	850	176	2,200	500/D
	70	12	1.1	2.0	35	0.268	800	222	3,000	500/D
	95	15	1.1	2.1	39	0.193	700	272	4,100	500/D
	120	18	1.2	2.3	44	0.153	700	320	5,000	500/D
	150	18	1.4	2.4	49	0.124	700	366	6,500	500/D
	185	30	1.6	2.6	54	0.0991	700	422	8,000	300/D
	240	34	1.7	2.8	61	0.0754	650	498	10,500	300/D
	300	34	1.8	3.0	68	0.0601	600	567	13,000	200/D
	400	53	2.0	3.3	76	0.0470	600	652	16,500	200/D

D : Packing in drum

0.6/1KV-CV-SWA

TIS 2143-2546, IEC 60502-1

0.6/1 kV 90°C CROSS-LINKED POLYETHLENE INSULATED PVC SHEATHED, WITH GALVANIZED STEEL WIRES ARMORED POWER CABLE



CABLE STRUCTURE

Conductor : Concentric stranded and compact stranded annealed copper
Sizes 1.5 mm^2 up to 400 mm^2

Insulation : Cross-Linked polyethylene (XLPE)
Color : Natural (Translucent)

Core identification : Compound color or color tape

2 Cores	: Blue and Brown
3 Cores	: Brown, Black and Grey
4 Cores	: Blue, Brown, Black and Grey

Other colors are available on customer request

Armor : Galvanized Steel Wires

Inner Sheath : Black polyvinyl chloride (PVC)

Outer Sheath : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts
Rated voltage (U_0/U) 0.6/1 kV
600 Volts between Line-to-Earth
1,000 Volts between Line-to-Line

Testing voltage : 3,500 Volts

Reference standard : IEC 60502-1,IEC 60228,IEC 60332-1
TIS 2143-2546

APPLICATION

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

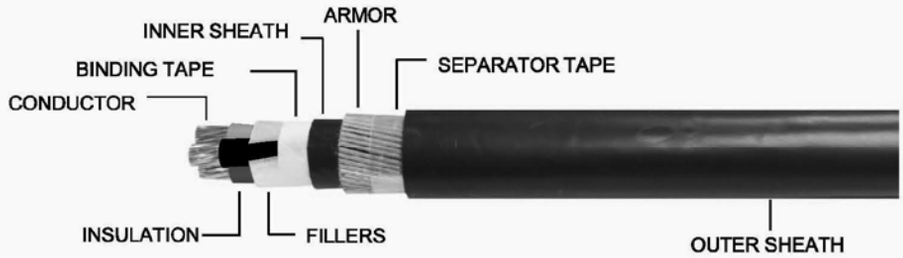
Number of core	Nominal cross sectional area (mm^2)	Number of wires minimum (No./mm)	Insulation thickness nominal (mm)	Inner sheath thickness nominal (mm)	Inner sheath diameter approx. (mm)	Diameter of steel wire armor nominal (mm)	Outer sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Cable weight approx. (kg/km)	Standard length (m)
2	1.5	7/0.53	0.7	1.2	9.7	0.80	1.8	15.0	12.1	360	500/D
	2.5	7/0.67	0.7	1.2	10.5	0.80	1.8	16.5	7.41	400	500/D
	4	7/0.85	0.7	1.2	11.5	1.25	1.8	18.0	4.61	600	500/D
	6	7/1.04	0.7	1.2	12.5	1.25	1.8	19.5	3.08	700	500/D
	10	6	0.7	1.2	14.0	1.25	1.8	20	1.83	800	500/D
	16	6	0.7	1.2	16.0	1.25	1.8	23	1.15	1,000	500/D
	25	6	0.9	1.2	19.0	1.60	1.8	26	0.727	1,500	500/D
	35	6	0.9	1.2	22	2.0	1.8	30	0.524	2,000	500/D
	50	6	1.0	1.2	24	2.0	1.9	33	0.387	2,400	500/D
	70	12	1.1	1.2	28	2.0	2.0	36	0.268	3,100	500/D
	95	15	1.1	1.2	32	2.0	2.1	40	0.193	3,800	500/D
	120	18	1.2	1.2	35	2.0	2.3	44	0.153	4,600	500/D
	150	18	1.4	1.3	39	2.0	2.4	48	0.124	5,500	500/D
	185	30	1.6	1.3	43	2.5	2.6	54	0.991	7,000	500/D
	240	34	1.7	1.4	49	2.5	2.7	60	0.0754	8,500	500/D
	300	34	1.8	1.5	54	2.5	2.9	66	0.0601	10,000	300/D
	400	53	2.0	1.7	61	2.5	3.2	73	0.0470	12,500	300/D

D : Packing in drum

0.6/1KV-CV-SWA

TIS 2143-2546, IEC 60502-1

0.6/1 kV 90°C CROSS-LINKED POLYETHLENE INSULATED PVC SHEATHED, WITH GALVANIZED STEEL WIRES ARMORED POWER CABLE



CABLE STRUCTURE

Conductor : Concentric stranded and compact stranded annealed copper
Sizes 1.5 mm^2 up to 400 mm^2

Insulation : Cross-Linked polyethylene (XLPE)
Color : Natural (Translucent)

Core identification Compound color or color tape
2 Cores : Blue and Brown
3 Cores : Brown, Black and Grey
4 Cores : Blue, Brown, Black and Grey
Other colors are available on customer request

Armor : Galvanized Steel Wires

Inner Sheath : Black polyvinyl chloride (PVC)

Outer Sheath : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts
Rated voltage (U_0/U) 0.6/1 kV
600 Volts between Line-to-Earth
1,000 Volts between Line-to-Line

Testing voltage : 3,500 Volts

Reference standard : IEC 60502-1,IEC 60228,IEC 60332-1
TIS 2143-2546

APPLICATION

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

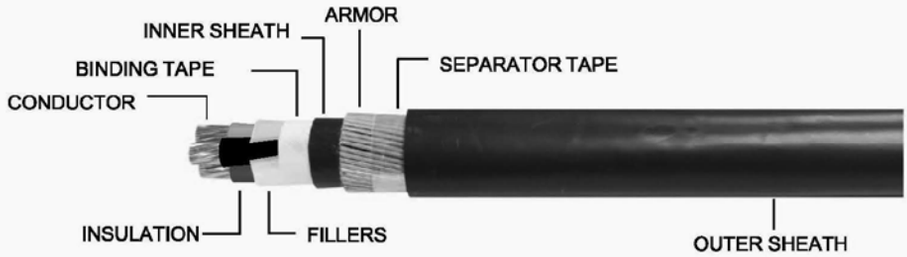
Number of core	Nominal cross sectional area (mm^2)	Number of wires minimum (No./mm)	Insulation thickness nominal (mm)	Inner sheath thickness nominal (mm)	Inner sheath diameter approx. (mm)	Diameter of steel wire armor nominal (mm)	Outer sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Cable weight approx. (kg/km)	Standard length (m)
3	1.5	7/0.53	0.7	1.2	10.0	0.80	1.8	16.0	12.1	400	500/D
	2.5	7/0.67	0.7	1.2	11.0	1.25	1.8	18.0	7.41	550	500/D
	4	7/0.85	0.7	1.2	12.0	1.25	1.8	19.0	4.61	650	500/D
	6	7/1.04	0.7	1.2	13.5	1.25	1.8	20.0	3.08	800	500/D
	10	6	0.7	1.2	14.5	1.25	1.8	21	1.83	950	500/D
	16	6	0.7	1.2	17.0	1.60	1.8	24	1.15	1,300	500/D
	25	6	0.9	1.2	21.0	1.60	1.8	28	0.727	1,800	500/D
	35	6	0.9	1.2	23	2.0	1.8	31	0.524	2,400	500/D
	50	6	1.0	1.2	26	2.0	2.0	34	0.387	3,000	500/D
	70	12	1.1	1.2	30	2.0	2.1	39	0.268	3,800	500/D
	95	15	1.1	1.2	34	2.0	2.2	43	0.193	4,800	500/D
	120	18	1.2	1.2	38	2.0	2.3	47	0.153	6,000	500/D
	150	18	1.4	1.3	42	2.5	2.5	52	0.124	7,500	500/D
	185	30	1.6	1.4	47	2.5	2.7	58	0.0991	9,000	500/D
	240	34	1.7	1.5	53	2.5	2.9	64	0.0754	11,000	300/D
	300	34	1.8	1.6	58	2.5	3.0	70	0.0601	13,500	300/D
	400	53	2.0	1.8	65	3.2	3.4	80	0.0470	17,500	300/D

D : Packing in drum

0.6/1KV-CV-SWA

TIS 2143-2546, IEC 60502-1

0.6/1 kV 90°C CROSS-LINKED POLYETHLENE INSULATED PVC SHEATHED, WITH GALVANIZED STEEL WIRES ARMORED POWER CABLE



CABLE STRUCTURE

Conductor Concentric stranded and compact stranded annealed copper
Sizes 1.5 mm^2 up to 400 mm^2

Insulation Cross-Linked polyethylene (XLPE)
Color : Natural (Translucent)

Core identification Compound color or color tape

2 Cores : Blue and Brown
3 Cores : Brown, Black and Grey
4 Cores : Blue, Brown, Black and Grey

Other colors are available on customer request

Armor : Galvanized Steel Wires
Inner Sheath : Black polyvinyl chloride (PVC)
Outer Sheath : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 1,200 Volts
Rated voltage (U_0/U) 0.6/1 kV
600 Volts between Line-to-Earth
1,000 Volts between Line-to-Line

Testing voltage : 3,500 Volts
Reference standard : IEC 60502-1,IEC 60228,IEC 60332-1
TIS 2143-2546

APPLICATION

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

Number of core	Nominal cross sectional area (mm^2)	Number of wires minimum (No./mm)	Insulation thickness nominal (mm)	Inner sheath thickness nominal (mm)	Inner sheath diameter approx. (mm)	Diameter of steel wire armor nominal (mm)	Outer sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Cable weight approx. (kg/km)	Standard length (m)
4	1.5	7/0.53	0.7	1.2	11.0	1.25	1.8	17.5	12.1	550	500/D
	2.5	7/0.67	0.7	1.2	12.0	1.25	1.8	19.0	7.41	650	500/D
	4	7/0.85	0.7	1.2	13.5	1.25	1.8	20	4.61	750	500/D
	6	7/1.04	0.7	1.2	15.0	1.25	1.8	21	3.08	900	500/D
	10	6	0.7	1.2	16.0	1.25	1.8	23	1.83	1,100	500/D
	16	6	0.7	1.2	18.5	1.60	1.8	26	1.15	1,600	500/D
	25	6	0.9	1.2	23	2.0	1.8	31	0.727	2,300	500/D
	35	6	0.9	1.2	25	2.0	1.9	34	0.524	2,900	500/D
	50	6	1.0	1.2	29	2.0	2.1	37	0.387	3,600	500/D
	70	12	1.1	1.2	33	2.0	2.2	42	0.268	4,700	500/D
	95	15	1.1	1.2	38	2.0	2.3	47	0.193	6,000	500/D
	120	18	1.2	1.3	42	2.5	2.5	53	0.153	7,500	500/D
	150	18	1.4	1.4	46	2.5	2.7	58	0.124	9,000	500/D
	185	30	1.6	1.5	52	2.5	2.8	64	0.0991	11,000	300/D
	240	34	1.7	1.6	59	2.5	3.1	71	0.0754	14,000	300/D
	300	34	1.8	1.7	65	2.5	3.3	78	0.0601	17,000	200/D
	400	53	2.0	1.9	73	3.15	3.6	87	0.0470	22,000	200/D

D : Packing in drum