

CONTROL Cables



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Control Cables

Control PVC Cables

PVC insulated and PVC sheathed to IEC 60502
0.6/1 kV



Cable Description

Conductor	Plain annealed stranded copper		
Sizes	1.5 mm ²	2.5 mm ²	4 mm ²
Core Insulation	PVC (polyvinyl chloride)		
Color coding	5 Cores Identification is Red, Yellow, Blue, Black, Y/G >5 cores will be black continuously numbered		
Assembly	Cores twisted together to form a round assembly cable with fillers when necessary		
Outer sheath	PVC (polyvinyl chloride)		
Cables marking	SAKHR CABLE ,size,cables short description,voltage,manufacturing year, METER marking		

Application

For outdoor and indoor installations in damp and wet locations, connecting signaling and control units in industry, in railways, in traffic signals, in thermo power and hydropower stations. They are laid in air, in ducts, in trenches, in steel support brackets or direct in ground, when well protected

Nominal Cross sectional area (mm ²)	No. of Cores	Nominal Thick-ness of Insulation (mm)	Current Rating (A)			Approx. Overall Diameter (mm)	Approx. Net Weight (kg/km)
			Ground	Duct	Air		
1.5	5	0.8	14.7	12.6	13.5	11.5	210
	7	0.8	12.6	10.8	11.7	12.7	242
	10	0.8	10.5	9	9.9	15.9	333
	12	0.8	9.4	8.1	9	16.4	382
	14	0.8	9.4	8.1	9	17.2	434
	16	0.8	8.4	7.2	8.1	18.1	492
	19	0.8	8.4	7.2	8.1	19.1	564
	24	0.8	7.3	6.3	7.2	22.2	702
	30	0.8	6.3	5.4	6.3	23.5	850
	37	0.8	6.3	5.4	6.3	25.4	1026
2.5	44	0.8	4.2	3.6	4.5	28.5	1212
	5	0.8	18.9	16.1	16.5	12.8	280
	7	0.8	16.2	13.8	14.3	14.1	328
	10	0.8	13.5	11.5	12.1	17.7	456
	12	0.8	12.1	10.3	11	18.3	528
	14	0.8	12.1	10.3	11	19.2	602
	16	0.8	10.8	9.2	9.9	20.2	685
	19	0.8	10.8	9.2	9.9	21.3	789
	24	0.8	9.4	8	8.8	24.9	985
	30	0.8	8.1	6.9	7.7	26.4	1199
4	37	0.8	8.1	6.9	7.7	28.5	1454
	44	0.8	5.4	4.6	5.5	32.3	1733
	5	1.0	24.5	21	23.2	15.2	412
	7	1.0	21	18	20.1	16.8	483
	10	1.0	17.5	15	17	21.3	675
	12	1.0	15.7	13.5	15.5	22.1	786
	14	1.0	15.7	13.5	15.5	23.2	901
	16	1.0	14	12	13.9	24.5	1028
	19	1.0	14	12	13.9	25.9	1189
	24	1.0	12.2	10.5	12.4	30.5	1494
	30	1.0	10.5	9	10.8	32.4	1835
	37	1.0	10.5	9	10.8	35.2	2239

Control Cables

Control XLPE Cables

XLPE insulated and PVC sheathed to IEC 60502-1
0.6/1 KV



Cable Description

Conductor	Plain annealed stranded copper		
Sizes	1.5 mm ²	2.5 mm ²	4 mm ²
Core insulation	XLPE (Cross linked Polyethylene)		
Alternatives	LSOH (Low smoke zero halogen)		
Color coding	5 Cores Identification is Red, Yellow, Blue, Black, Y/G		
Assembly	>5 cores will be black continuously numbered		
	Cores twisted together to form a round assembly cable with fillers when necessary		
Outer sheath	PVC (Polyvinyl chloride)		
Alternatives	LSOH (Low smoke zero halogen)		
Cables marking	SAKHR CABLE , size, cables short description,voltage,manufacturing year, meter marking		

Nominal Cross sectional area (mm ²)	No. of Cores	Nominal Thickness of insulation (mm)	Current Rating (A)			Approx. Overall Diameter (mm)	Approx. Net Weight (kg/km)
			Ground	Duct	Air		
1.5	5	0.7	18.2	16.1	16.5	11	181
	7	0.7	15.6	13.8	14.3	21.1	206
	10	0.7	13	11.5	12.1	15.1	283
	12	0.7	11.7	10.3	11	15.6	323
	14	0.7	11.7	10.3	11	16.3	356
	16	0.7	10.4	9.2	9.9	17.2	413
	19	0.7	10.4	9.2	9.9	18.1	472
	24	0.7	9.1	8	8.8	21	586
	30	0.7	7.8	6.9	7.7	23.2	705
	37	0.7	7.8	6.9	7.7	24	849
2.5	44	0.7	5.2	4.6	5.5	27	1001
	5	0.7	24.5	20.3	24	12.2	246
	7	0.7	21	17.4	20.8	13.5	286
	10	0.7	17.5	14.5	17.6	16.9	396
	12	0.7	15.7	13	16	17.5	456
	14	0.7	15.7	13	16	18.3	519
	16	0.7	14	11.6	14.4	19.3	590
	19	0.7	14	11.6	14.4	20.3	678
	24	0.7	12.2	10.1	12.8	23.7	846
	30	0.7	10.5	8.7	11.2	25.1	1027
4	37	0.7	10.5	8.7	11.2	27.1	1234
	44	0.7	7	5.8	8	30.6	1473
	5	0.7	31.5	25.2	30.7	13.6	336
	7	0.7	27	21.6	26.6	15	599
	10	0.7	22.5	18	22.5	18.9	552
	12	0.7	20.2	16.2	20.5	19.6	641
	14	0.7	20.2	16.2	20.5	20.6	733
	16	0.7	18	14.4	18.4	21.7	835
	19	0.7	18	14.4	18.4	22.9	965
	24	0.7	15.7	12.6	16.4	26.8	1207
	30	0.7	13.5	10.8	14.3	28.4	1474
	37	0.7	13.5	10.8	14.3	30.8	1798

Control Cables

Control PVC Cables

PVC insulated , Copper tape screened and PVC sheathed to IEC 60502 - 0.6/1 kV



Cable Description

Conductor	Plain annealed stranded copper		
Sizes	1.5 mm ²	2.5 mm ²	4 mm ²
Core insulation	PVC (polyvinyl chloride)		
Color coding	5 Cores Identification is Red, Yellow, Blue, Black, Y/G >5 cores will be black continuously numbered		
Assembly	Cores twisted together to form a round assembly cable with fillers when necessary		
Inner sheath	PVC (polyvinyl Chloride) or binder tape		
Screening	Copper tape helically applied		
Outer sheath	PVC (polyvinyl chloride)		
Cables marking	SAKHR CABLES =,size,cables short description,voltage,manufacturing year, meter marking		

Application

For outdoor and indoor installations in damp and wet locations, connecting signaling and control units in industry, in railways, in traffic signals, in thermo power and hydropower stations. They are laid in air, in ducts, in trenches, in steel support brackets or direct in ground, when well protected

Nominal Cross sectional area (mm ²)	No. of Cores	Nominal Thickness of insulation (mm)	Current Rating (A)			Approx. Overall Diameter (mm)	Approx. Net Weight (kg/km)
			Ground	Duct	Air		
1.5	5	0.8	13.9	11.9	12.8	13.3	290
	7	0.8	11.9	10.2	11.1	14.5	330
	10	0.8	9.9	8.5	9.4	17.07	443
	12	0.8	8.9	7.6	8.5	18.02	496
	14	0.8	8.9	7.6	8.5	19	553
	16	0.8	7.9	6.8	7.6	19.9	617
	19	0.8	7.9	6.8	7.6	20.9	696
	24	0.8	6.9	5.9	6.8	24	856
	30	0.8	5.9	5.1	5.9	25.3	1012
	37	0.8	5.9	5.1	5.9	27.2	1201
2.5	44	0.8	3.9	3.4	4.2	30.3	1407
	5	0.8	17.9	15.2	15.6	14.6	369
	7	0.8	15.3	13.1	13.5	15.9	425
	10	0.8	12.8	10.9	11.4	19.5	578
	12	0.8	11.5	9.8	10.4	20.1	654
	14	0.8	11.5	9.8	10.4	21	734
	16	0.8	10.2	8.7	9.4	22	824
	19	0.8	10.2	8.7	9.4	23.1	936
	24	0.8	8.9	7.6	8.3	26.7	1157
	30	0.8	7.6	6.5	7.3	28.2	1381
4	37	0.8	7.6	6.5	7.3	30.3	1651
	44	0.8	5.1	4.3	5.2	34.4	1981
	5	1.0	23.2	19.9	22	17	517
	7	1.0	19.9	17.1	19.1	18.6	599
	10	1.0	16.6	14.2	16.1	23.1	822
	12	1.0	14.9	12.8	14.7	23.9	938
	14	1.0	14.9	12.8	14.7	25	1060
	16	1.0	13.3	11.4	13.2	26.3	1197
	19	1.0	13.3	11.4	13.2	27.7	1367
	24	1.0	11.6	9.9	11.7	32.6	1730
	30	1.0	9.9	8.5	10.3	34.6	2085
	37	1.0	9.9	8.5	10.3	37.4	2514

Control Cables

Control XLPE Cables

XLPE insulated, copper tape screened and PVC sheathed
to IEC 60502-1 0.6/1 KV



Cable Description

Conductor	Plain annealed stranded copper
Sizes	1.5 mm ² 2.5 mm ² 4 mm ²
Core insulation	XLPE (Cross linked Polyethylene)
Alternatives	LSOH (Low smoke zero halogen)
Color coding	5 Cores Identification is Red, Yellow, Blue, Black, Y/G >5 cores will be black continuously numbered
Assembly	Cores twisted together to form a round assembly cable with fillers when necessary
Inner Sheath	PVC (polyvinyl chloride)
Alternatives	LSOH (Low smoke zero halogen)
Screening	Copper tape helically applied
Outer sheath	PVC (polyvinyl chloride)
Alternatives	LSOH (Low smoke zero halogen)
Cables marking	SAKHR CABLE , size, cables short description,voltage,manufacturing year,meter marking

Application

For outdoor and indoor installations in damp and wet locations, connecting signaling and control units in industry, in railways, in traffic signals, in thermo power and hydropower stations. They are laid in air, in ducts,in trenches, in steel support brackets or direct in ground, when well protected

Nominal Cross sectional area (mm ²)	No. of Cores	Nominal Thick-ness of insulation ((mm	Current Rating (A)			Approx. Overall Diameter ((mm	Approx. Net Weight (kg/km)
			Ground	Duct	Air		
1.5	5	0.7	17.2	15.2	15.6	12.8	257
	7	0.7	14.8	13.1	13.5	14	290
	10	0.7	12.3	10.9	11.4	16.9	387
	12	0.7	11.1	9.8	10.4	17.4	430
	14	0.7	11.1	9.8	10.4	18.1	478
	16	0.7	9.8	8.7	9.4	19	532
	19	0.7	9.8	8.7	9.4	19.9	596
	24	0.7	8.6	7.6	8.3	22.8	731
	30	0.7	7.4	6.5	7.3	24	858
	37	0.7	7.4	6.5	7.3	25.8	1014
2.5	44	0.7	4.9	4.3	5.2	28.7	1186
	5	0.7	23.2	19.2	22.8	14	330
	7	0.7	19.9	16.5	19.7	15.3	379
	10	0.7	16.6	13.7	16.7	18.7	512
	12	0.7	14.9	12.3	15.2	19.3	577
	14	0.7	14.9	12.3	15.2	20.1	646
	16	0.7	13.3	11	13.6	21.1	723
	19	0.7	13.3	11	13.6	22.1	818
	24	0.7	11.6	9.6	12.1	25.5	1009
	30	0.7	9.9	8.2	10.6	26.9	1200
4	37	0.7	9.9	8.2	10.6	29	1430
	44	0.7	6.6	5.5	7.6	32.8	1710
	5	0.7	29.9	23.9	29.2	25.4	729
	7	0.7	25.6	20.5	25.3	16.8	499
	10	0.7	21.3	17.1	21.4	20.7	682
	12	0.7	19.2	15.3	19.4	21.4	776
	14	0.7	19.2	15.3	19.4	22.4	875
	16	0.7	17.1	13.6	17.5	23.5	985
	19	0.7	17.1	13.6	17.5	24.7	1123
	24	0.7	14.9	11.9	15.5	28.6	1391
	30	0.7	12.8	10.2	13.6	30.2	1669
	37	0.7	12.8	10.2	13.6	32.9	2036