ABHAR CABLE CO.

QUALITY MANAGEMENT GLC SYSTEMS
ISO 9002
Certificate No.
QS-1147HH

Accredited by the
Dutch Council for
Accreditation

AC ABHAR CABLE


AC
ABHAR
CABLE

Low Voltage Cables

Low Voltage cables encompass all types of copper or aluminium cables insulated with a variety of polymers rated voltages of 600 /1000 Volts. These cables are used for delivering electrical power for a wide variety of uses, from lighting to providing drive for electric motors.

AC can provide its clients with an extremely wide range of Low Voltage cables customized for use in the working environment in which they will be utilized. Our product range includes Fire Resistant (IEC 331: for use in critical areas where fire survival are important), Flame Retardant (IEC 332: for use in areas of fire hazard where fire survival is not needed but the cables should not be flammable), Lead Sheathed (provides a total barrier to hydrocarbons, corrosive gases and water) and Armoured Cables (to provide mechanical protection), Low Smoke, Zero Halogen and Oil Hydrocarbon resistant cables.

*Additionally, our unique facilities allow the production of large cables in long lengths; saving money on jointing AND providing additional reliability by reducing the number of joints required in total cable rovte that are often sources of failures

ABHAR CABLE

LOW VOLTAGE CABLES

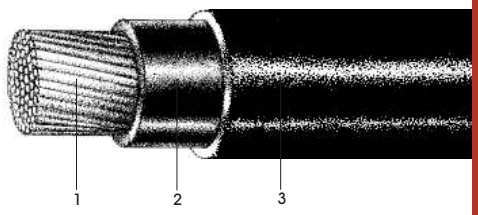
CONTENTS

	CABLE TYPES	INSULATION	NO. OF CORES	DESIGNATION	PAGE
COPPER CONDUCTOR	UNARMOURED	PVC	SINGLE CORE	Cu/PVC/PVC	1
		PVC	2 CORE	Cu/PVC/PVC	2
		PVC	3 CORE	Cu/PVC/PVC	3
		PVC	3½ CORE	Cu/PVC/PVC	4
		PVC	3½ CORE	Cu/PVC/Bd/Lsh/PVC	5
		PVC	4 CORE	Cu/PVC/PVC	6
		PVC	5 CORE	Cu/PVC/PVC	7
	WIRE ARMOURED	PVC	SINGLE CORE	Cu/PVC/Bd/AWA/PVC	8
		PVC	2 CORE	Cu/PVC/Bd/SWA/PVC	9
		PVC	3 CORE	Cu/PVC/Bd/SWA/PVC	10
		PVC	3½ CORE	Cu/PVC/Bd/SWA/PVC	11
		PVC	3½ CORE	Cu/PVC/Bd/Lsh/Bd/SWA/PVC	12
		PVC	4 CORE	Cu/PVC/Bd/SWA/PVC	13
		PVC	5 CORE	Cu/PVC/Bd/SWA/PVC	14
	TAPE ARMOURED	PVC	2 CORE	Cu/PVC/Bd/DTA/PVC	15
		PVC	3 CORE	Cu/PVC/Bd/DTA/PVC	16
		PVC	3½ CORE	Cu/PVC/Bd/DTA/PVC	17
		PVC	4 CORE	Cu/PVC/Bd/DTA/PVC	18
	UNARMOURED	XLPE	SINGLE CORE	Cu/XLPE/PVC	19
		XLPE	2 CORE	Cu/XLPE/PVC	20
		XLPE	3 CORE	Cu/XLPE/PVC	21
		XLPE	3½ CORE	Cu/XLPE/PVC	22
		XLPE	3½ CORE	Cu/XLPE/Bd/Lsh/PVC	23
		XLPE	4 CORE	Cu/XLPE/PVC	24
		XLPE	5 CORE	Cu/XLPE/PVC	25
	WIRE ARMOURED	XLPE	SINGLE CORE	Cu/XLPE/Bd/AWA/PVC	26
		XLPE	2 CORE	Cu/XLPE/Bd/SWA/PVC	27
		XLPE	3 CORE	Cu/XLPE/Bd/SWA/PVC	28
		XLPE	3½ CORE	Cu/XLPE/Bd/SWA/PVC	29
		XLPE	3½ CORE	Cu/XLPE/Bd/Lsh/Bd/SWA/PVC	30
		XLPE	4 CORE	Cu/XLPE/Bd/SWA/PVC	31
		XLPE	5 CORE	Cu/XLPE/Bd/SWA/PVC	32
	SCREENED	PVC	SINGLE CORE	Cu/PVC/CWS/PVC	33
		PVC	2 CORE	Cu/PVC/Bd/CWS/PVC	34
		PVC	3 CORE	Cu/PVC/Bd/CWS/PVC	35
		PVC	4 CORE	Cu/PVC/Bd/CWS/PVC	36
		PVC	5 CORE	Cu/PVC/Bd/CWS/PVC	37
ALUMINIUM CONDUCTOR	UNARMOURED	PVC	SINGLE CORE	Al/PVC/PVC	38
		PVC	2 CORE	Al/PVC/PVC	39
		PVC	3 CORE	Al/PVC/PVC	40
		PVC	4 CORE	Al/PVC/PVC	41
	WIRE ARMOURED	PVC	SINGLE CORE	Al/PVC/Bd/AWA/PVC	42
		PVC	2 CORE	Al/PVC/Bd/SWA/PVC	43
		PVC	3 CORE	Al/PVC/Bd/SWA/PVC	44
		PVC	4 CORE	Al/PVC/Bd/SWA/PVC	45
	UNARMOURED	XLPE	SINGLE CORE	Al/XLPE/PVC	46
		XLPE	2 CORE	Al/XLPE/PVC	47
		XLPE	3 CORE	Al/XLPE/PVC	48
		XLPE	4 CORE	Al/XLPE/PVC	49
	WIRE ARMOURED	XLPE	SINGLE CORE	Al/XLPE/Bd/AWA/PVC	50
		XLPE	2 CORE	Al/XLPE/Bd/SWA/PVC	51
		XLPE	3 CORE	Al/XLPE/Bd/SWA/PVC	52
		XLPE	4 CORE	Al/XLPE/Bd/SWA/PVC	53
CONTROL	UNARMOURED	PVC	1.5	Cu/PVC/PVC	54
		PVC	2.5	Cu/PVC/PVC	55
		XLPE	1.5	Cu/XLPE/PVC	56
		XLPE	2.5	Cu/XLPE/PVC	57
	WIRE ARMOURED	PVC	1.5	Cu/PVC/Bd/SWA/PVC	58
		PVC	2.5	Cu/PVC/Bd/SWA/PVC	59
		XLPE	1.5	Cu/XLPE/Bd/SWA/PVC	60
		XLPE	2.5	Cu/XLPE/Bd/SWA/PVC	61
	TAPE ARMOURED	PVC	2.5	Cu/PVC/Bd/DTA/PVC	62
		XLPE	2.5	Cu/XLPE/Bd/DTA/PVC	63
	LEAD SHEATHED	PVC	2.5	Cu/PVC/Bd/Lsh/Bd/SWA/PVC	64
		XLPE	2.5	Cu/XLPE/Bd/Lsh/Bd/SWA/PVC	65
	SCREENED	PVC	1.5	Cu/PVC/Bd/CWS/PVC	66
		XLPE	2.5	Cu/XLPE/Bd/CWS/PVC	67
		PVC	2.5	Cu/PVC/Bd/CuB/Pet/PVC	68
		XLPE	2.5	Cu/XLPE/Bd/CuB/PVC	69
		PVC	2.5	TiCu/PVC/Bd/TCB/Pet/PVC	70
		XLPE	2.5	TiCu/XLPE/BD/TCB/Pet/PVC	71
PVC/PVC	SINGLE CORE	PVC		Cu/PVC/PVC	72
	2 CORE	PVC		Cu/PVC/PVC	73
	3 CORE	PVC		Cu/PVC/PVC	74
	3½ CORE	PVC		Cu/PVC/PVC	75
	4 CORE	PVC		Cu/PVC/PVC	76
	5 CORE	PVC		Cu/PVC/PVC	77
EPR/EPR	SINGLE CORE	EPR		Cu/EPR/EPR	78
	2 CORE	EPR		Cu/EPR/EPR	79
	3 CORE	EPR		Cu/EPR/EPR	80
	4 CORE	EPR		Cu/EPR/EPR	81
	SINGLE CORE	EPR		TiCu/EPR/EPR	82
	2 CORE	EPR		TiCu/EPR/EPR	83
	3 CORE	EPR		TiCu/EPR/EPR	84
	4 CORE	EPR		TiCu/EPR/EPR	85

ABHAR CABLE

Cu/PVC/PVC **IEC 60502-1**

Description:
Unarmoured single core cable with copper conductor & PVC insulation.



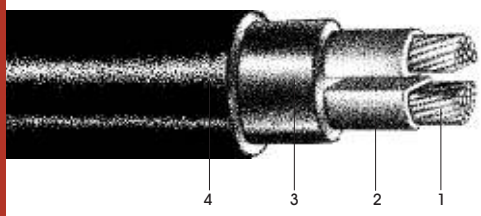
Number of Cores & Cross Section mm^2	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
1x 1.5 RM	0.8	1.4	6.4	54
1x 2.5 RM	0.8	1.4	6.8	67
1x 4 RM	1.0	1.4	7.8	94
1x 6 RM	1.0	1.4	8.2	116
1x 10 RM	1.0	1.4	9.2	165
1x 16 RM	1.0	1.4	9.9	220
1x 25 RM	1.2	1.4	11.5	325
1x 35 RM	1.2	1.4	12.5	422
1x 50 RM	1.4	1.4	14.1	559
1x 70 RM	1.4	1.4	15.8	765
1x 95 RM	1.6	1.5	18.1	1041
1x 120 RM	1.6	1.5	19.8	1279
1x 150 RM	1.8	1.6	21.8	1573
1x 185 RM	2.0	1.7	24.1	1956
1x 240 RM	2.2	1.8	27.1	2541
1x 300 RM	2.4	1.9	29.9	3152
1x 400 RM	2.6	2.0	33.5	3993
1x 500 RM	2.8	2.1	38.0	5098
1x 630 RM	2.8	2.2	41.0	6450

1-Stranded Circular Conductor 2-PVC Insulation 3-PVC Sheathing.
Maximum conductor temperature: 70°C

Electrical Data

Number of cores	AC resistance (Ohm/km)		REACTANCE (Ohm/km)		Voltage Drop (mV.A/m)	
	Trefoil	Flat	Trefoil	Flat	Trefoil	Flat
1 x 1.5 RM	14.48	14.48	0.149	0.319	20.22	20.39
1 x 2,5 RM	8.87	8.87	0.137	0.303	12.43	12.61
1 x 4 RM	5.52	5.52	0.13	0.289	7.78	7.95
1 x 6 RM	3.69	3.69	0.124	0.281	5.24	5.40
1 x 10 RM	2.19	2.19	0.115	0.265	3.15	3.31
1 x 16 RM	1.38	1.38	0.111	0.256	2.03	2.18
1 x 25 RM	0.87	0.87	0.106	0.243	1.32	1.46
1 x 35 RM	0.627	0.627	0.101	0.234	0.97	1.11
1 x 50 RM	0.463	0.463	0.096	0.223	0.74	0.87
1 x 70 RM	0.321	0.321	0.092	0.212	0.54	0.67
1 x 95 RM	0.232	0.231	0.09	0.204	0.41	0.53
1 x 120 RM	0.184	0.184	0.087	0.197	0.35	0.46
1 x 150 RM	0.15	0.149	0.087	0.192	0.30	0.41
1 x 185 RM	0.1206	0.1193	0.086	0.186	0.26	0.36
1 x 240 RM	0.0929	0.0912	0.084	0.179	0.22	0.31
1 x 300 RM	0.0753	0.0732	0.084	0.175	0.19	0.28
1 x 400 RM	0.0606	0.0579	0.082	0.167	0.17	0.25
1 x 500 RM	0.0493	0.0459	0.081	0.161	0.15	0.23
1 x 630 RM	0.0406	0.0365	0.08	0.157	0.14	0.21

ABHAR CABLE



IEC 60502-1 Cu/PVC/PVC

Description:
Unarmoured 2 core cable with copper conductor & PVC insulation.

★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
○ 2x 1.5 RE	0.8	1.8	12.2	194
2x 1.5 RM	0.8	1.8	12.8	210
○ 2x 2.5 RE	0.8	1.8	13.0	233
2x 2.5 RM	0.8	1.8	13.6	250
○ 2x 4 RE	1.0	1.8	14.8	316
2x 4 RM	1.0	1.8	15.6	341
○ 2x 6 RE	1.0	1.8	15.8	382
2x 6 RM	1.0	1.8	16.4	403
○ 2x 10 RE	1.0	1.8	17.4	507
2x 10 RM	1.0	1.8	18.4	546
2x 16 RM	1.0	1.4	19.9	692
2x 25 RM	1.2	1.4	23.2	998
2x 35 RM	1.2	1.4	25.2	1258
2x 50 SM	1.4	1.4	25.2	1143
2x 70 SM	1.4	1.4	28.5	1570
2x 95 SM	1.6	1.5	32.9	2135
2x 120 SM	1.6	1.5	35.6	2639
2x 150 SM	1.8	1.6	39.3	3239
2x 185 SM	2.0	1.7	43.8	4047
2x 240 SM	2.2	1.8	49.0	5243
2x 300 SM	2.4	1.9	54.4	6534

1-Stranded Shaped Conductor 2-PVC Insulation 3-Extruded PVC Filler 4-PVC Sheathing.

★ : Circular conductor for cross sections of 35 mm² or less
○ : Solid circular conductor
Maximum conductor temperature: 70°C

Electrical Data

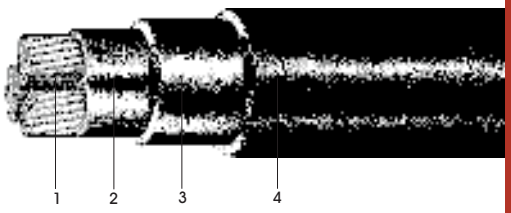
Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
2 x 1.5 RE	14.48	0.091	23.28
2 x 1.5 RM	14.48	0.107	23.30
2 x 2,5 RE	8.87	0.084	14.29
2 x 2,5 RM	8.87	0.098	14.31
2 x 4 RE	5.52	0.084	8.93
2 x 4 RM	5.52	0.099	8.95
2 x 6 RE	3.69	0.078	6.00
2 x 6 RM	3.69	0.095	6.02
2 x 10 RE	2.19	0.072	3.59
2 x 10 RM	2.19	0.089	3.61

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
2 x 16 RM	1.38	0.087	2.31
2 x 25 RM	0.87	0.086	1.50
2 x 35 RM	0.627	0.083	1.10
2 x 50 SM	0.464	0.08	0.84
2 x 70 SM	0.321	0.078	0.61
2 x 95 SM	0.232	0.077	0.46
2 x 120 SM	0.184	0.075	0.38
2 x 150 SM	0.15	0.075	0.33
2 x 185 SM	0.1205	0.075	0.28
2 x 240 SM	0.0928	0.074	0.24
2 x 300 SM	0.0752	0.074	0.21

ABHAR CABLE

Cu/PVC/PVC **IEC 60502-1**

Description:
Unarmoured 3 core cable with copper conductor & PVC insulation.



★ Number of Cores & Cross Section mm^2	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
○ 3x 1.5 RE	0.8	1.8	12.7	218
3x 1.5 RM	0.8	1.8	13.3	234
○ 3x 2.5 RE	0.8	1.8	13.5	265
3x 2.5 RM	0.8	1.8	14.2	285
○ 3x 4 RE	1.0	1.8	15.5	368
3x 4 RM	1.0	1.8	16.3	393
○ 3x 6 RE	1.0	1.8	16.5	450
3x 6 RM	1.0	1.8	17.2	475
○ 3x 10 RE	1.0	1.8	18.3	616
3x 10 RM	1.0	1.8	19.4	653
3x 16 RM	1.0	1.8	21.0	852
3x 25 RM	1.2	1.8	24.5	1242
3x 35 RM	1.2	1.8	26.7	1588
3x 50 SM	1.4	1.8	28.5	1654
3x 70 SM	1.4	1.9	32.5	2284
3x 95 SM	1.6	2.1	37.6	3134

1-Stranded Shaped Conductor 2-PVC Insulation 3-Extruded PVC Filler 4-PVC Sheathing.

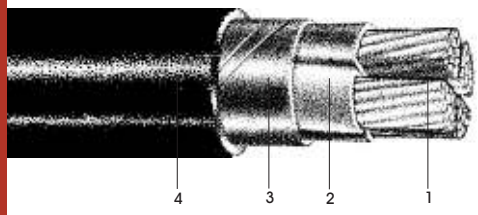
★ : Circular conductor for cross sections of 35 mm^2 or less
○ : Solid circular conductor
Maximum conductor temperature: 70°C

Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mv.A/m)
3 x 1, 5 RE	14.48	0.091	20.16
3 x 1, 5 RM	14.48	0.107	20.17
3 x 2,5 RE	8.87	0.084	12.38
3 x 2,5 RM	8.87	0.098	12.39
3 x 4 RE	5.52	0.084	7.74
3 x 4 RM	5.52	0.099	7.75
3 x 6 RE	3.69	0.078	5.19
3 x 6 RM	3.69	0.095	5.21
3 x 10 RE	2.19	0.072	3.11
3 x 10 RM	2.19	0.089	3.13

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mv.A/m)
3 x 16 RM	1.38	0.087	2.00
3 x 25 RM	0.87	0.086	1.29
3 x 35 RM	0.627	0.083	0.96
3 x 50 SM	0.464	0.08	0.73
3 x 70 SM	0.322	0.078	0.53
3 x 95 SM	0.232	0.077	0.40
3 x 120 SM	0.185	0.075	0.33
3 x 150 SM	0.15	0.075	0.29
3 x 185 SM	0.1212	0.075	0.25
3 x 240 SM	0.0937	0.074	0.21
3 x 300 SM	0.0762	0.074	0.18

ABHAR CABLE



IEC 60502-1 Cu/PVC/PVC

Description:
Unarmoured 3½ core cable with copper conductor & PVC insulation.

★ Number of Cores & Cross Section mm²	Insulation Thickness PH mm	N mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3x 50 +25 SM	1.4	1.2	1.9	31.8	1965
3x 70 +35 SM	1.4	1.2	2.0	36.2	2704
3x 95 +50 SM	1.6	1.4	2.2	41.7	3696
3x 120 +70 SM	1.6	1.4	2.3	45.3	4637
3x 150 +70 SM	1.8	1.4	2.5	50.1	5559
3x 185 +95 SM	2.0	1.6	2.6	55.5	6993
3x 240 +120 SM	2.2	1.6	2.9	63.2	9060
3x 300 +150 SM	2.4	1.8	3.1	69.9	11254

1-Stranded Shaped Conductor 2-PVC Insulation 3-Extruded PVC Filler 4-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm² or less

Maximum conductor temperature: 70°C

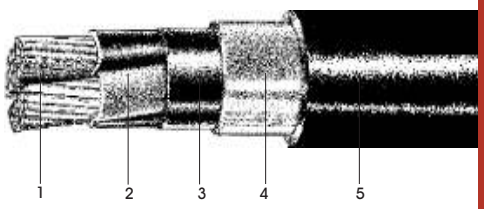
Electrical Data

Number of cores	AC resistance(Ohm/km)	REACTANCE(Ohm/km)	Voltage Drop (mV.A/m)
3 x 50 SM + 25 RM	0.464	0.088	0.73
3 x 70 SM + 35 RM	0.321	0.085	0.53
3 x 95 SM + 50 SM	0.232	0.084	0.41
3 x 120 SM + 70 SM	0.185	0.082	0.34
3 x 150 SM + 70 SM	0.15	0.083	0.29
3 x 185 SM + 95 SM	0.1208	0.082	0.25
3 x 240 SM + 120 SM	0.0931	0.082	0.21
3 x 300 SM + 150 SM	0.0755	0.081	0.19

ABHAR CABLE

Cu/PVC/Bd/Lsh/PVC **IEC 60502-1**

Description:
Unarmoured 3½ core cable ,lead sheathed with copper conductor & PVC insulation.



★ Number of Cores & Cross Section mm²	Insulation Thickness PH mm	Insulation Thickness N mm	Lead Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3x 50 +25 SM	1.4	1.2	1.4	2.0	37.6	3802
3x 70 +35 SM	1.4	1.2	1.5	2.2	42.5	4940
3x 95 +50 SM	1.6	1.4	1.7	2.3	48.1	6531
3x 120 +70 SM	1.6	1.4	1.8	2.5	52.7	7987
3x 150 +70 SM	1.8	1.4	1.9	2.6	57.7	9390
3x 185 +95 SM	2.0	1.6	2.0	2.8	64.0	11555
3x 240 +120 SM	2.2	1.6	2.2	3.0	71.7	14622
3x 300 +150 SM	2.4	1.8	2.4	3.3	79.1	17921

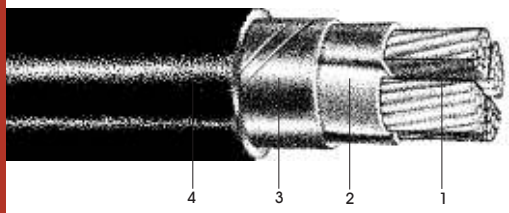
1-Stranded Shaped Conductor 2-PVC Insulation 3-Extruded PVC Bedding 4-Lead Sheath 5-PVC Sheathing.

★ :Circular conductor for cross sections of 35 mm² or less
★★:Single & other multi cores are also available
Maximum conductor temperature: 70°C

Electrical Data

Number of cores	AC resistance(Ohm/km)	REACTANCE(Ohm/km)	Voltage Drop (mV.A/m)
3 x 50 SM + 25 RM	0.464	0.088	0.73
3 x 70 SM + 35 RM	0.321	0.085	0.53
3 x 95 SM + 50 SM	0.232	0.084	0.41
3 x 120 SM + 70 SM	0.185	0.082	0.34
3 x 150 SM + 70 SM	0.15	0.083	0.29
3 x 185 SM + 95 SM	0.1208	0.261	0.44
3 x 240 SM + 120 SM	0.0931	0.082	0.21
3 x 300 SM + 150 SM	0.0755	0.081	0.19

ABHAR CABLE



IEC 60502-1 Cu/PVC/PVC

Description:
Unarmoured 4 core cable with copper conductor & PVC insulation.

★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
4x 1.5 RM	0.8	1.8	14.2	271
4x 2.5 RM	0.8	1.8	15.1	330
4x 4 RM	1.0	1.8	17.5	463
4x 6 RM	1.0	1.8	18.5	566
4x 10 RM	1.0	1.8	21.0	791
4x 16 RM	1.0	1.8	22.8	1046
4x 25 RM	1.2	1.8	26.7	1536
4x 35 RM	1.2	1.8	29.1	1973
★ 4x 50 SM	1.4	1.9	31.8	2179
4x 70 SM	1.4	2.0	36.2	3016
4x 95 SM	1.6	2.2	41.7	4133
4x 120 SM	1.6	2.3	45.3	5114
4x 150 SM	1.8	2.5	50.1	6307
4x 185 SM	2.0	2.6	55.5	7846
4x 240 SM	2.2	2.9	63.2	10247
4x 300 SM	2.4	3.1	69.9	12762

1-Stranded Shaped Conductor 2-PVC Insulation 3-Extruded PVC Filler 4-PVC Sheathing
★ : Circular conductor for cross sections of 35 mm² or less
Maximum conductor temperature: 70°C

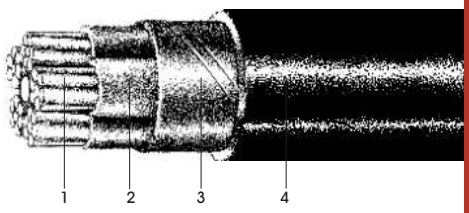
Electrical Data

Number of cores	AC resistance(Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop(mV.A/m)
4 x 1.5 RM	14.48	0.115	20.18
4 x 2.5 RM	8.87	0.106	12.40
4 x 4 RM	5.52	0.106	7.76
4 x 6 RM	3.69	0.102	5.22
4 x 10 RM	2.19	0.097	3.14
4 x 16 RM	1.38	0.094	2.01
4 x 25 RM	0.87	0.093	1.30
4 x 35 RM	0.627	0.09	0.96
4 x 50 SM	0.464	0.088	0.73
4 x 70 SM	0.321	0.085	0.53
4 x 95 SM	0.232	0.084	0.41
4 x 120 SM	0.185	0.082	0.34
4 x 150 SM	0.15	0.083	0.29
4 x 185 SM	0.1208	0.082	0.25
4 x 240 SM	0.0931	0.082	0.21
4 x 300 SM	0.0755	0.081	0.19

ABHAR CABLE

Cu/PVC/PVC **IEC 60502-1**

Description:
Unarmoured 5 core cable with copper conductor & PVC insulation.



★ Number of Cores & Cross Section mm^2	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
5x 1.5RM	0.8	1.8	15.1	306
5x 2.5RM	0.8	1.8	16.2	381
5x 4 RM	1.0	1.8	18.9	540
5x 6 RM	1.0	1.8	20.1	664
5x 10 RM	1.0	1.8	22.9	943
5x 16 RM	1.0	1.8	24.8	1247
5x 25 RM	1.2	1.8	29.1	1837
5x 35 RM	1.2	1.9	32.4	2395

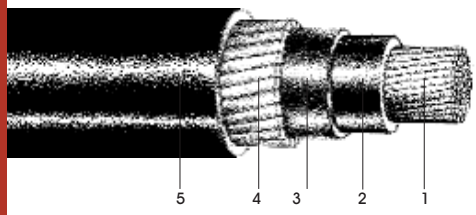
1-Stranded Circular Conductor 2-PVC Insulation 3-Extruded PVC Filler 4-PVC Sheathing

★ :Solid, circular conductor for cross sections of less than 16 mm^2
Maximum conductor temperature: 70°C

Electrical Data

Number of cores	AC resistance(Ohm/km)	REACTANCE(Ohm/km)	Voltage Drop(mv.A/m)
5 x 1.5 RM	14.48	0.117	20.19
5 x 2.5 RM	8.87	0.109	12.40
5 x 4 RM	5.52	0.109	7.76
5 x 6 RM	3.69	0.105	5.22
5 x 10 RM	2.19	0.1	3.14
5 x 16 RM	1.38	0.097	2.01
5 x 25 RM	0.87	0.096	1.31
5 x 35 RM	0.627	0.093	0.97

ABHAR CABLE



IEC 60502-1 Cu/PVC/Bd/AWA/PVC

Description:
Wire armoured single core cable
with copper conductor & PVC insulation.

★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
1x 16 RM	1.0	1.6	1.8	16.2	430
1x 25 RM	1.2	1.6	1.8	17.8	569
1x 35 RM	1.2	1.6	1.8	18.8	678
1x 50 RM	1.4	1.6	1.8	20.5	843
1x 70 RM	1.4	1.6	1.8	22.2	1082
1x 95 RM	1.6	1.6	1.8	24.3	1387
1x 120 RM	1.6	1.6	1.8	25.9	1652
1x 150 RM	1.8	1.6	1.8	27.7	1965
1x 185 RM	2.0	1.6	1.8	30.0	2371
1x 240 RM	2.2	1.6	1.9	33.1	3008
1x 300 RM	2.4	2.0	2.0	36.5	3751
1x 400 RM	2.6	2.0	2.1	40.8	4705
1x 500 RM	2.8	2.0	2.2	44.9	5879
1x 630 RM	2.8	2.0	2.4	48.3	7315

1-Stranded Circular Conductor 2-PVC Insulation 3-Extruded PVC Bedding 4-Aluminium Wire Armour 5-PVC Sheathing

★ :Solid, circular conductor for cross sections of less than 16 mm²
Maximum conductor temperature: 70°C

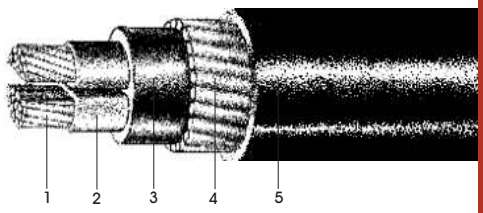
Electrical Data

Number of cores	AC resistance (Ohm/km)		REACTANCE (Ohm/km)		Voltage Drop(mV.A/m)	
	Trefoil	Flat	Trefoil	Flat	Trefoil	Flat
1 x 16 RM	1.38	1.38	0.146	0.262	2.06	2.18
1 x 25 RM	0.87	0.87	0.137	0.249	1.35	1.46
1 x 35 RM	0.627	0.627	0.131	0.24	1.00	1.12
1 x 50 RM	0.463	0.463	0.123	0.228	0.77	0.88
1 x 70 RM	0.321	0.321	0.116	0.218	0.57	0.67
1 x 95 RM	0.232	0.231	0.111	0.209	0.44	0.54
1 x 120 RM	0.184	0.184	0.107	0.201	0.37	0.46
1 x 150 RM	0.15	0.149	0.104	0.196	0.32	0.41
1 x 185 RM	0.1201	0.1193	0.102	0.19	0.27	0.36
1 x 240 RM	0.0922	0.0912	0.099	0.184	0.23	0.32
1 x 300 RM	0.0745	0.0731	0.097	0.179	0.20	0.29
1 x 400 RM	0.0596	0.0578	0.095	0.172	0.18	0.26
1 x 500 RM	0.0481	0.0458	0.092	0.166	0.16	0.24
1 x 630 RM	0.0393	0.0365	0.09	0.161	0.15	0.22

ABHAR CABLE

Cu/PVC/Bd/SWA/PVC **IEC 60502-1**

Description:
Wire armoured 2 core cable with copper conductor & PVC insulation.



★ Number of Cores & Cross Section mm^2	Insulation Thickness mm	Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
2x 16 RM	1.0	1.25	1.8	22.4	1097
2x 25 RM	1.2	1.6	1.8	26.4	1626
2x 35 RM	1.2	1.6	1.8	28.4	1944
2x 50 SM	1.4	2.0	1.9	31.9	2334
2x 70 SM	1.4	2.0	2.0	35.1	2915
2x 95 SM	1.6	2.0	2.2	40.2	3762
2x 120 SM	1.6	2.0	2.3	42.9	4370
2x 150 SM	1.8	2.5	2.4	47.6	5536
2x 185 SM	2.0	2.5	2.6	52.5	6695
2x 240 SM	2.2	2.5	2.8	58.3	8216
2x 300 SM	2.4	2.5	2.9	63.9	9863

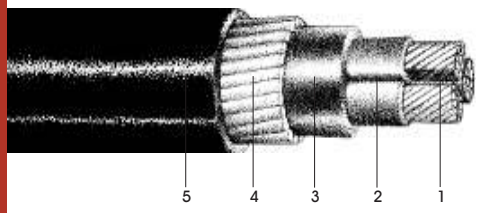
1-Stranded Shaped Conductor 2-PVC Insulation 3-Extruded PVC Bedding 4-Galvanized Steel Wire Armour 5-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm^2 or less
Maximum conductor temperature: 70°C

Electrical Data

Number of cores	AC resistance(Ohm/km)	REACTANCE(Ohm/km)	Voltage Drop(mV.A/m)
2 x 16 RM	1.38	0.087	2.31
2 x 25 RM	0.87	0.086	1.50
2 x 35 RM	0.627	0.083	1.10
2 x 50 SM	0.464	0.08	0.84
2 x 70 SM	0.321	0.078	0.61
2 x 95 SM	0.232	0.077	0.46
2 x 120 SM	0.184	0.075	0.38
2 x 150 SM	0.15	0.075	0.33
2 x 185 SM	0.1205	0.075	0.28
2 x 240 SM	0.0928	0.074	0.24
2 x 300 SM	0.0752	0.074	0.21

ABHAR CABLE



IEC 60502-1 Cu/PVC/Bd/SWA/PVC

Description:
Wire armoured 3 core cable with copper conductor & PVC insulation.

★ Number of Cores & Cross Section mm^2	Insulation Thickness mm	Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3x 16 RM	1.0	1.25	1.8	23.5	1288
3x 25 RM	1.2	1.6	1.8	27.7	1906
3x 35 RM	1.2	2.0	1.9	31.2	2540
3x 50 SM	1.4	2.0	2.0	35.4	2991
3x 70 SM	1.4	2.0	2.1	39.7	3848
3x 95 SM	1.6	2.0	2.2	44.7	4901
3x 120 SM	1.6	2.0	2.3	47.7	5794
3x 150 SM	1.8	2.5	2.5	53.7	7445
3x 185 SM	2.0	2.5	2.7	59.1	8881
3x 240 SM	2.2	2.5	2.9	65.8	11132
3x 300 SM	2.4	2.5	3.0	71.8	13352

1-Stranded Shaped Conductor 2-PVC Insulation 3-Extruded PVC Bedding 4-Galvanized Steel Wire Armour 5-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm^2 or less
Maximum conductor temperature: 70°C

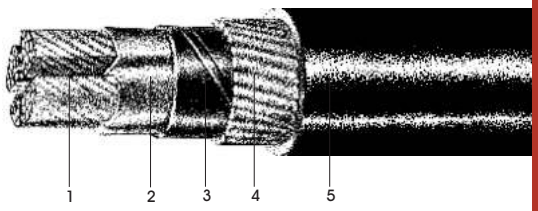
Electrical Data

Number of cores	AC resistance(Ohm/km)	REACTANCE(Ohm/km)	Voltage Drop(mV.A/m)
3 x 16 RM	1.38	0.087	2.00
3 x 25 RM	0.87	0.086	1.29
3 x 35 RM	0.627	0.083	0.96
3 x 50 SM	0.464	0.08	0.73
3 x 70 SM	0.322	0.078	0.53
3 x 95 SM	0.232	0.077	0.40
3 x 120 SM	0.185	0.075	0.33
3 x 150 SM	0.15	0.075	0.29
3 x 185 SM	0.1212	0.075	0.25
3 x 240 SM	0.0937	0.074	0.21
3 x 300 SM	0.0762	0.074	0.18

ABHAR CABLE

Cu/PVC/Bd/SWA/PVC **IEC 60502-1**

Description:
Wire armoured 3½ core cable with copper conductor & PVC insulation.



★ Number of Cores & Cross Section mm²	Insulation Thickness PH mm	Insulation Thickness N mm	Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3x 25 +16 RM	1.2	1.0	2.0	1.8	30.9	2406
3x 35 +16 RM	1.2	1.0	2.0	1.9	33.6	2885
3x 50 +25 SM	1.4	1.2	2.00	2.1	39.0	3473
3x 70 +35 SM	1.4	1.2	2.0	2.2	43.5	4426
3x 95 +50 SM	1.6	1.4	2.5	2.4	50.0	6061
3x 120 +70 SM	1.6	1.4	2.5	2.5	54.1	7286
3x 150 +70 SM	1.8	1.4	2.5	2.7	59.2	8453
3x 185 +95 SM	2.0	1.6	2.5	2.8	65.0	10281
3x 240 +120 SM	2.2	1.6	2.5	3.1	72.6	12748
3x 300 +150 SM	2.4	1.8	2.5	3.3	79.3	15330

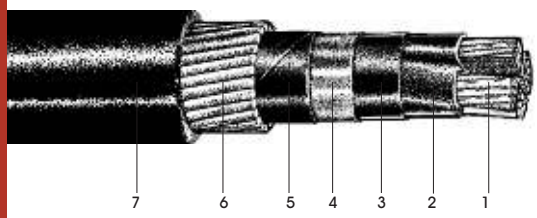
1-Stranded Shaped Conductor 2-PVC Insulation 3-Extruded PVC Bedding 4-Galvanized Steel Wire Armour 5-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm² or less
Maximum conductor temperature: 70°C

Electrical Data

Number of cores	AC resistance(Ohm/km)	REACTANCE(Ohm/km)	Voltage Drop (mV.A/m)
3 x 25 RM + 16 RM	0.87	0.093	1.30
3 x 35 RM + 16 RM	0.627	0.09	0.96
3 x 50 SM + 25 RM	0.464	0.088	0.73
3 x 70 SM + 35 RM	0.321	0.085	0.53
3 x 95 SM + 50 SM	0.232	0.084	0.41
3 x 120 SM + 70 SM	0.185	0.082	0.34
3 x 150 SM + 70 SM	0.15	0.083	0.29
3 x 185 SM + 95 SM	0.1208	0.082	0.25
3 x 240 SM + 120 SM	0.0931	0.082	0.21
3 x 300 SM + 150 SM	0.0755	0.081	0.19

ABHAR CABLE



IEC 60502-1 Cu/PVC/Bd/Lsh/Bd/SWA/PVC

★★

Description:
Wire armoured 3½ core cable, lead sheathed with copper conductor & PVC insulation.

★ Number of Cores & Cross Section mm²	Insulation Thickness PH mm	Insulation Thickness N mm	Lead Thickness mm	Diameter of Armour mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3x 25 +16 RM	1.2	1.0	1.3	2.0	2.0	36.5	3935
3x 35 +16 RM	1.2	1.0	1.4	2.0	2.1	39.3	4644
3x 50 +25 SM	1.4	1.2	1.4	2.0	2.3	45.1	5564
3x 70 +35 SM	1.4	1.2	1.5	2.5	2.4	51.0	7364
3x 95 +50 SM	1.6	1.4	1.7	2.5	2.6	57.3	9285
3x 120 +70 SM	1.6	1.4	1.8	2.5	2.7	61.7	10951
3x 150 +70 SM	1.8	1.4	1.9	2.5	2.9	67.1	12692
3x 185 +95 SM	2.0	1.6	2.0	2.5	3.1	73.6	15263
3x 240 +120 SM	2.2	1.6	2.2	3.15	3.4	83.3	19821
3x 300 +150 SM	2.4	1.8	2.4	3.15	3.6	90.7	23580

1-Stranded Shaped Conductor 2-PVC Insulation 3-Extruded PVC Bedding 4-Lead Sheath 5-PVC Bedding 6-Galvanized Steel Wire Armour 7-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm² or less
★★: Single & other multi cores are also available
Maximum conductor temperature: 70°C

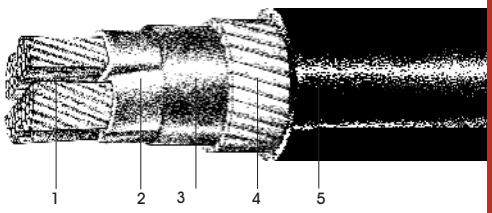
Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
3 x 25 RM + 16 RM	0.87	0.976	2.22
3 x 35 RM + 16 RM	0.627	0.897	1.80
3 x 50 SM + 25 RM	0.464	0.771	1.44
3 x 70 SM + 35 RM	0.321	0.541	1.01
3 x 95 SM + 50 SM	0.232	0.476	0.82
3 x 120 SM + 70 SM	0.185	0.082	0.34
3 x 150 SM + 70 SM	0.15	0.083	0.29
3 x 185 SM + 95 SM	0.1208	0.082	0.25
3 x 240 SM + 120 SM	0.931	0.082	1.38
3 x 300 SM + 150 SM	0.0755	0.081	0.19

ABHAR CABLE

Cu/PVC/Bd/SWA/PVC **IEC 60502-1**

Description:
Wire armoured 4 core cable with copper conductor & PVC insulation.



★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Wire Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
4x 1.5 RM	0.8	0.8	1.8	15.8	442
4x 2.5 RM	0.8	0.8	1.8	16.7	517
4x 4 RM	1.0	1.25	1.8	20.1	818
4x 6 RM	1.0	1.25	1.8	21.1	949
4x 10 RM	1.0	1.25	1.8	23.5	1230
4x 16 RM	1.0	1.60	1.8	26.0	1668
4x 25 RM	1.2	2.0	1.8	30.9	2478
4x 35 RM	1.2	2.0	1.9	33.6	3026
4x 50 SM	1.4	2.0	2.1	39.0	3687
4x 70 SM	1.4	2.0	2.2	43.5	4737
4x 95 SM	1.6	2.5	2.4	50.0	6497
4x 120 SM	1.6	2.5	2.5	54.1	7763
4x 150 SM	1.8	2.5	2.7	59.2	9200
4x 185 SM	2.0	2.5	2.8	65.0	11135
4x 240 SM	2.2	2.5	3.1	72.6	13935
4x 300 SM	2.4	2.5	3.3	79.3	16839

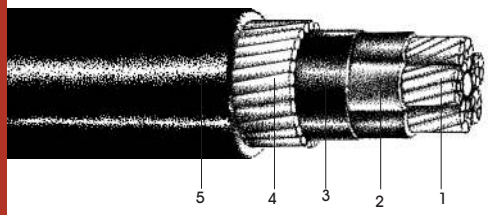
1-Stranded Shaped Conductor 2-PVC Insulation 3-Extruded PVC Bedding 4-Galvanized Steel Wire Armour 5-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm² or less
Maximum conductor temperature: 70°C

Electrical Data

Number of cores	AC resistance(Ohm/km)	REACTANCE(Ohm/km)	Voltage Drop(mV.A/m)
4 x 1.5 RM	14.48	0.115	20.18
4 x 2.5 RM	8.87	0.106	12.40
4 x 4 RM	5.52	0.106	7.76
4 x 6 RM	3.69	0.102	5.22
4 x 10 RM	2.19	0.097	3.14
4 x 16 RM	1.38	0.094	2.01
4 x 25 RM	0.87	0.093	1.30
4 x 35 RM	0.627	0.09	0.96
4 x 50 SM	0.464	0.088	0.73
4 x 70 SM	0.321	0.085	0.53
4 x 95 SM	0.232	0.084	0.41
4 x 120 SM	0.185	0.082	0.34
4 x 150 SM	0.15	0.083	0.29
4 x 185 SM	0.1208	0.082	0.25
4 x 240 SM	0.0931	0.082	0.21
4 x 300 SM	0.0755	0.081	0.19

ABHAR CABLE



IEC 60502-1 Cu/PVC/Bd/SWA/PVC

Description:
Wire armoured 5 core cable with copper conductor & PVC insulation.

★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Wire Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
5x 1.5 RE	0.8	0.8	1.8	15.9	460
5x 2.5 RE	0.8	0.8	1.8	17.0	549
5x 4 RE	1.0	1.25	1.8	20.4	870
5x 6 RE	1.0	1.25	1.8	21.8	1039
5x 10 RE	1.0	1.6	1.8	24.7	1480
5x 16 RM	1.0	1.6	1.8	28.0	1932
5x 25 RM	1.2	2.0	1.9	33.6	2894
5x 35 RM	1.2	2.0	2.0	36.6	3550

1-Stranded Circular Conductor 2-PVC Insulation 3-Extruded PVC Bedding 4-Galvanized Steel Wire Armour 5-PVC Sheathing

★ : Solid circular conductor for cross sections of less than 16 mm²
Maximum conductor temperature: 70°C

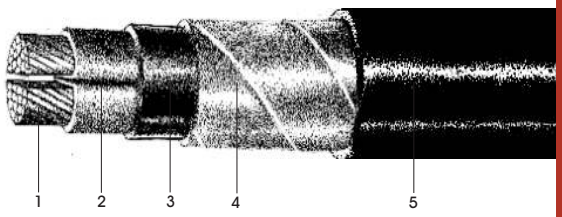
Electrical Data

Number of cores	AC resistance(Ohm/km)	REACTANCE(Ohm/km)	VoltageDrop(mV.A/m)
5 x 1.5 RE	14.48	0.115	20.18
5 x 2.5 RE	8.87	0.106	12.40
5 x 4 RE	5.52	0.106	7.76
5 x 6 RE	3.69	0.102	5.22
5 x 10 RE	2.19	0.097	3.14
5 x 16 RM	1.38	0.094	2.01
5 x 25 RM	0.87	0.093	1.30
5 x 35 RM	0.627	0.09	0.96

ABHAR CABLE

Cu/PVC/Bd/DTA/PVC **IEC 60502-1**

Description:
Tape armoured 2 core cable with copper conductor & PVC insulation.



★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Tape Armour Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
2x 50 SM	1.4	0.2	1.8	28.9	1564
2x 70 SM	1.4	0.2	1.9	32.4	2044
2x 95 SM	1.6	0.2	2.1	37.4	2754
2x 120 SM	1.6	0.5	2.2	41.2	3536
2x 150 SM	1.8	0.5	2.3	44.8	4226
2x 185 SM	2.0	0.5	2.4	49.6	5193
2x 240 SM	2.2	0.5	2.6	55.0	6550
2x 300 SM	2.4	0.5	2.8	61.1	8068

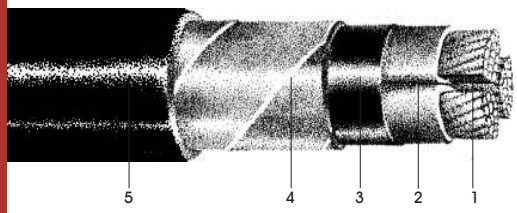
1-Stranded Shaped Conductor 2-PVC Insulation 3-Extruded PVC Bedding 4-Galvanized Steel Tape Armour 5-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm² or less
Maximum conductor temperature: 70°C

Electrical Data

Number of cores	AC resistance(Ohm/km)	REACTANCE(Ohm/km)	Voltage Drop(mV.A/m)
2 x 50 SM	0.464	0.08	0.84
2 x 70 SM	0.321	0.078	0.61
2 x 95 SM	0.232	0.077	0.46
2 x 120 SM	0.184	0.075	0.38
2 x 150 SM	0.15	0.075	0.33
2 x 185 SM	0.1205	0.075	0.28
2 x 240 SM	0.0928	0.074	0.24
2 x 300 SM	0.0752	0.074	0.21

ABHAR CABLE



IEC 60502-1 Cu/PVC/Bd/DTA/PVC

Description:
Tape armoured 3 core cable with copper conductor & PVC insulation.

★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Tape Armour Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3x 16 RM	1.0	0.2	1.8	22.5	1010
3x 25 RM	1.2	0.2	1.8	26.0	1426
3x 35 RM	1.2	0.2	1.8	28.2	1788
3x 50 SM	1.4	0.2	1.9	32.7	2123
3x 70 SM	1.4	0.2	2.0	37.0	2865
3x 95 SM	1.6	0.5	2.2	43.2	4043
3x 120 SM	1.6	0.5	2.3	46.2	4855
3x 150 SM	1.8	0.5	2.4	51.0	5911
3x 185 SM	2.0	0.5	2.6	56.0	7218
3x 240 SM	2.2	0.5	2.8	63.0	9249
3x 300 SM	2.4	0.5	2.9	69.1	11282

1-Stranded Shaped Conductor 2-PVC Insulation 3-Extruded PVC Bedding 4-Galvanized Steel Tape Armour 5-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm² or less
Maximum conductor temperature: 70°C

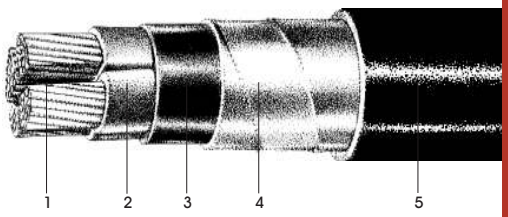
Electrical Data

Number of cores	AC resistance(Ohm/km)	REACTANCE(Ohm/km)	Voltage Drop(mV.A/m)
3 x 16 RM	1.38	0.087	2.00
3 x 25 RM	0.87	0.086	1.29
3 x 35 RM	0.627	0.083	0.96
3 x 50 SM	0.464	0.08	0.73
3 x 70 SM	0.322	0.078	0.53
3 x 95 SM	0.232	0.077	0.40
3 x 120 SM	0.185	0.075	0.33
3 x 150 SM	0.15	0.075	0.29
3 x 185 SM	0.1212	0.075	0.25
3 x 240 SM	0.0937	0.074	0.21
3 x 300 SM	0.0762	0.074	0.18

ABHAR CABLE

Cu/PVC/Bd/DTA/PVC **IEC 60502-1**

Description:
Tape armoured 3½ corer cable with copper conductor & PVC insulation.



★ Number of Cores & Cross Section mm²	Insulation Thickness PH mm	N mm	Tape Armour Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3x 25 + 16 RM	1.2	1.0	0.2	1.8	28.2	1669
3x 35 + 16 RM	1.2	1.0	0.2	1.8	30.8	2053
3x 50 + 25 SM	1.4	1.2	0.2	2.0	36.3	2508
3x 70 + 35 SM	1.4	1.2	0.5	2.1	41.7	3555
3x 95 + 50 SM	1.6	1.4	0.5	2.3	47.2	4670
3x 120 + 70 SM	1.6	1.4	0.5	2.4	51.4	5758
3x 150 + 70 SM	1.8	1.4	0.5	2.6	56.1	6792
3x 185 + 95 SM	2.0	1.6	0.5	2.7	62.3	8430
3x 240 +120 SM	2.2	1.6	0.5	3.0	69.8	10684
3x 300 +150 SM	2.4	1.8	0.5	3.2	76.5	13046

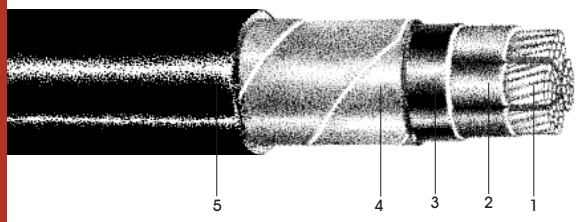
1-Stranded Shaped Conductor 2-PVC Insulation 3-Extruded PVC Bedding 4-Galvanized Steel Tape Armour 5-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm² or less
Maximum conductor temperature: 70°C

Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
3 x 25 RM + 16 RM	0.87	0.093	1.30
3 x 35 RM + 16 RM	0.627	0.09	0.96
3 x 50 SM + 25 RM	0.464	0.088	0.73
3 x 70 SM + 35 RM	0.321	0.085	0.53
3 x 95 SM + 50 SM	0.232	0.084	0.41
3 x 120 SM + 70 SM	0.185	0.082	0.34
3 x 150 SM + 70 SM	0.15	0.083	0.29
3 x 185 SM + 95 SM	0.1208	0.082	0.25
3 x 240 SM + 120 SM	0.0931	0.082	0.21
3 x 300 SM + 150 SM	0.0755	0.081	0.19

ABHAR CABLE



IEC 60502-1 Cu/PVC/Bd/DTA/PVC

Description:
Tape armoured 4 core cable with copper conductor & PVC insulation.

★ Number of Cores & Cross Section mm^2	Insulation Thickness mm	Tape Armour Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
4x 16 RM	1.0	0.2	1.8	24.3	1220
4x 25 RM	1.2	0.2	1.8	28.2	1740
4x 35 RM	1.2	0.2	1.8	30.8	2195
4x 50 SM	1.4	0.2	2.0	36.3	2722
4x 70 SM	1.4	0.5	2.1	41.7	3866
4x 95 SM	1.6	0.5	2.3	47.2	5106
4x 120 SM	1.6	0.5	2.4	51.4	6234
4x 150 SM	1.8	0.5	2.6	56.1	7540
4x 185 SM	2.0	0.5	2.7	62.3	9284
4x 240 SM	2.2	0.5	3.0	69.8	11872
4x 300 SM	2.4	0.5	3.2	76.5	14554

1-Stranded Shaped Conductor 2-PVC Insulation 3-Extruded PVC Bedding 4-Galvanized Steel Tape Armour 5-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm^2 or less
Maximum conductor temperature: 70°C

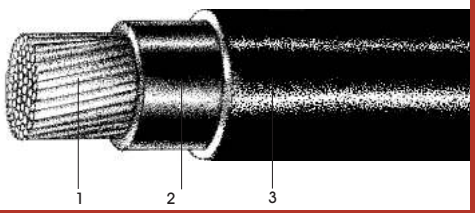
Electrical Data

Number of cores				AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
4	x	16	RM	1.38	0.094	2.01
4	x	25	RM	0.87	0.093	1.30
4	x	35	RM	0.627	0.09	0.96
4	x	50	SM	0.464	0.088	0.73
4	x	70	SM	0.321	0.085	0.53
4	x	95	SM	0.232	0.084	0.41
4	x	120	SM	0.185	0.082	0.34
4	x	150	SM	0.15	0.083	0.29
4	x	185	SM	0.1208	0.082	0.25
4	x	240	SM	0.0931	0.082	0.21
4	x	300	SM	0.0755	0.081	0.19

ABHAR CABLE

Cu/XLPE/PVC **IEC 60502-1**

Description:
Unarmoured single core cable with copper conductor & XLPE insulation.



Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
1x 1.5 RM	0.7	1.4	6.2	49
1x 2.5 RM	0.7	1.4	6.6	61
1x 4 RM	0.7	1.4	7.2	80
1x 6 RM	0.7	1.4	7.6	101
1x 10 RM	0.7	1.4	8.6	147
1x 16 RM	0.7	1.4	9.3	201
1x 25 RM	0.9	1.4	10.9	300
1x 35 RM	0.9	1.4	11.9	394
1x 50 RM	1.0	1.4	13.3	518
1x 70 RM	1.1	1.4	15.2	723
1x 95 RM	1.1	1.5	17.1	977
1x 120 RM	1.2	1.5	19.0	1215
1x 150 RM.	1.4	1.6	21.0	1496
1x 185 RM	1.6	1.6	23.1	1854
1x 240 RM	1.7	1.7	25.9	2409
1x 300 RM	1.8	1.8	28.2	2990
1x 400 RM	2.0	1.9	32.1	3800
1x 500 RM	2.2	2.0	36.6	4866
1x 630 RM	2.4	2.2	40.2	6242

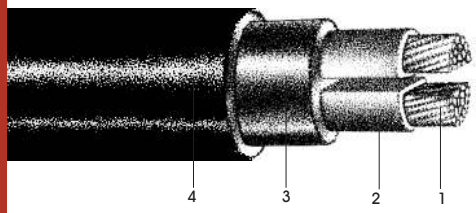
1-Stranded Circular Conductor 2-XLPE Insulation 3-PVC Sheathing

Maximum conductor temperature: 90°C

Electrical Data

Number of cores	AC resistance (Ohm/km)		REACTANCE (Ohm/km)		Voltage Drop(mV.A/m)	
	Trefoil	Flat	Trefoil	Flat	Trefoil	Flat
1 x 1.5 RM	15.53	15.53	0.15	0.319	21.67	21.85
1 x 2.5 RM	9.45	9.45	0.14	0.303	13.23	13.41
1 x 4 RM	5.88	5.88	0.13	0.289	8.28	8.45
1 x 6 RM	3.93	3.93	0.12	0.28	5.57	5.74
1 x 10 RM	2.33	2.33	0.11	0.265	3.34	3.50
1 x 16 RM	1.47	1.47	0.11	0.256	2.15	2.30
1 x 25 RM	0.927	0.927	0.10	0.243	1.39	1.54
1 x 35 RM	0.668	0.668	0.10	0.234	1.03	1.17
1 x 50 RM	0.494	0.494	0.09	0.222	0.78	0.92
1 x 70 RM	0.342	0.342	0.09	0.212	0.57	0.69
1 x 95 RM	0.247	0.246	0.09	0.203	0.43	0.55
1 x 120 RM	0.196	0.196	0.08	0.196	0.36	0.48
1 x 150 RM	0.16	0.159	0.09	0.191	0.31	0.42
1 x 185 RM	0.1284	0.1271	0.08	0.185	0.26	0.37
1 x 240 RM	0.0898	0.0971	0.08	0.178	0.21	0.32
1 x 300 RM	0.0801	0.0778	0.08	0.174	0.20	0.29
1 x 400 RM	0.0643	0.0615	0.08	0.167	0.17	0.26
1 x 500 RM	0.0522	0.0486	0.08	0.161	0.15	0.23
1 x 630 RM	0.0427	0.0386	0.08	0.156	0.14	0.22

ABHAR CABLE



IEC 60502-1 Cu/XLPE/PVC

Description:
Unarmoured 2 core cable with copper conductor & XLPE insulation.

★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
○ 2x 1.5 RE	0.7	1.8	11.8	178
2x 1.5 RM	0.7	1.8	12.4	193
○ 2x 2.5 RE	0.7	1.8	12.6	215
2x 2.5 RM	0.7	1.8	13.2	231
○ 2x 4 RE	0.7	1.8	13.6	268
2x 4 RM	0.7	1.8	14.4	290
○ 2x 6 RE	0.7	1.8	14.6	330
2x 6 RM	0.7	1.8	15.2	349
○ 2x 10 RE	0.7	1.8	16.2	449
2x 10 RM	0.7	1.8	17.2	483
2x 16 RM	0.7	1.8	18.6	624
2x 25 RM	0.9	1.8	22.0	912
2x 35 RM	0.9	1.8	24.0	1163
2x 50 SM	1.0	1.8	23.5	1070
2x 70 SM	1.1	1.8	27.0	1485
2 x 95 SM	1.1	1.9	30.6	2004
2x 120 SM	1.2	2.0	33.7	2502
2x 150 SM	1.4	2.2	37.7	3094
2x 185 SM	1.6	2.3	41.7	3847
2x 240 SM	1.7	2.5	46.9	5004
2x 300 SM	1.8	2.6	51.6	6204

1-Stranded Shaped Conductor 2-XLPE Insulation 3-Extruded PVC Filler 4-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm² or less
○ : Solid circular conductor
Maximum conductor temperature: 90°C

Electrical Data

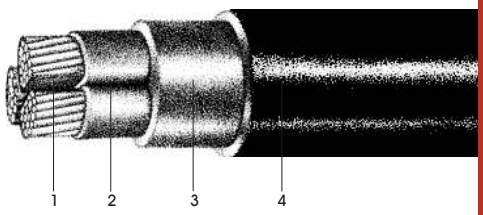
Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
2 x 1.5 RE	15.43	0.087	24.79
2 x 1.5 RM	15.43	0.103	24.81
2 x 2.5 RE	9.45	0.08	15.22
2 x 2.5 RM	9.45	0.095	15.23
2 x 4 RE	5.88	0.075	9.50
2 x 4 RM	5.88	0.09	9.52
2 x 6 RE	3.93	0.07	6.37
2 x 6 RM	3.93	0.087	6.39
2 x 10 RE	2.33	0.065	3.81
2 x 10 RM	2.33	0.083	3.83

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
2 x 16 RM	1.47	0.081	2.45
2 x 25 RM	0.927	0.081	1.58
2 x 35 RM	0.668	0.079	1.16
2 x 50 SM	0.494	0.075	0.88
2 x 70 SM	0.342	0.075	0.64
2 x 95 SM	0.247	0.072	0.48
2 x 120 SM	0.196	0.072	0.40
2 x 150 SM	0.16	0.072	0.34
2 x 185 SM	0.1283	0.072	0.29
2 x 240 SM	0.0987	0.071	0.24
2 x 300 SM	0.0799	0.071	0.21

ABHAR CABLE

Cu/XLPE/PVC **IEC 60502-1**

Description:
Unarmoured 3 core cable with copper conductor & XLPE insulation.



★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
○ 3x 1.5 RE	0.7	1.8	12.2	197
3x 1.5 RM	0.7	1.8	12.9	214
○ 3x 2.5 RE	0.7	1.8	13.1	244
3x 2.5 RM	0.7	1.8	13.7	259
○ 3x 4 RE	0.7	1.8	14.2	312
3x 4 RM	0.7	1.8	15.0	333
○ 3x 6 RE	0.7	1.8	15.3	393
3x 6 RM	0.7	1.8	15.9	410
○ 3x 10 RE	0.7	1.8	17.0	546
3x 10 RM	0.7	1.8	18.1	583
3x 16 RM	0.7	1.8	19.7	771
3x 25 RM	0.9	1.8	23.2	1137
3x 35 RM	0.9	1.8	25.4	1472
3x 50 SM	1.0	1.8	26.6	1544
3x 70 SM	1.1	1.9	31.1	2173
3x 95 SM	1.1	2.0	35.0	2938
3x 120 SM	1.2	2.1	38.5	3672
3x 150 SM	1.4	2.3	43.0	4538
3x 185 SM	1.6	2.4	47.9	5650
3x 240 SM	1.7	2.6	53.7	7354
3x 300 SM	1.8	2.7	59.4	9127

1-Stranded Shaped Conductor 2-XLPE Insulation 3-Extruded PVC Filler 4-PVC Sheathing

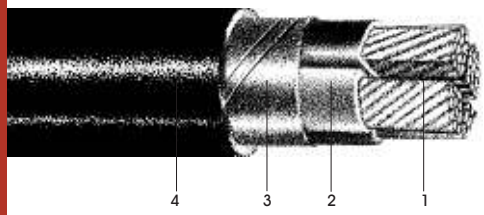
★ : Circular conductor for cross sections of 35 mm² or less
○ : Solid circular conductor
Maximum conductor temperature: 90°C

Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
3 x 1,.5 RE	15.43	0.087	21.47
3 x 1.5 RM	15.43	0.103	21.49
3 x 2.5 RE	9.45	0.08	13.18
3 x 2.5 RM	9.45	0.095	13.19
3 x 4 RE	5.88	0.075	8.23
3 x 4 RM	5.88	0.09	8.24
3 x 6 RE	3.93	0.07	5.52
3 x 6 RM	3.93	0.087	5.54
3 x 10 RE	2.33	0.065	3.30
3 x 10 RM	2.33	0.083	3.31

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
3 x 16 RM	1.47	0.081	2.12
3 x 25 RM	0.927	0.081	1.37
3 x 35 RM	0.669	0.079	1.01
3 x 50 SM	0.494	0.075	0.76
3 x 70 SM	0.343	0.075	0.55
3 x 95 SM	0.247	0.072	0.42
3 x 120 SM	0.197	0.072	0.35
3 x 150 SM	0.16	0.072	0.30
3 x 185 SM	0.129	0.072	0.25
3 x 240 SM	0.0996	0.071	0.21
3 x 300 SM	0.081	0.071	0.19

ABHAR CABLE



IEC 60502-1 Cu/XLPE/PVC

Description:
Unarmoured 3½ core cable with copper conductor & XLPE insulation.

★ Number of Cores & Cross Section mm²	Insulation Thickness PH mm	N mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3x 50 +25 SM	1.0	0.9	1.8	29.5	1813
3x 70 +35 SM	1.1	0.9	2.0	34.6	2556
3x 95 +50 SM	1.1	1.0	2.1	38.8	3448
3x 120 +70 SM	1.2	1.1	2.3	43.1	4402
3x 150 +70 SM	1.4	1.1	2.4	47.9	5263
3x 185 +95 SM	1.6	1.1	2.6	53.3	6648
3x 240 +120 SM	1.7	1.2	2.8	60.2	8598
3x 300 +150 SM	1.8	1.4	3.0	66.5	10680

1-Stranded Shaped Conductor 2-XLPE Insulation 3-Taped PVC Filler 4-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm² or less
Maximum conductor temperature: 90°C

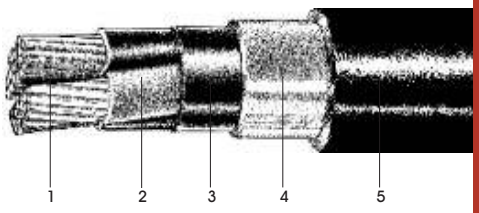
Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
3 x 50 SM + 25 RM	0.494	0.083	0.77
3 x 70 SM + 35 RM	0.343	0.082	0.56
3 x 95 SM + 50 SM	0.247	0.079	0.42
3 x 120 SM + 70 SM	0.197	0.079	0.36
3 x 150 SM + 70 SM	0.16	0.08	0.30
3 x 185 SM + 95 SM	0.1286	0.08	0.26
3 x 240 SM + 120 SM	0.0991	0.079	0.22
3 x 300 SM + 150 SM	0.0803	0.078	0.19

ABHAR CABLE

Cu/XLPE/Bd/Lsh/PVC **IEC 60502-1**

Description:
Unarmoured 3½ core cable, lead sheathed with copper conductor & XLPE insulation.



★ Number of Cores & Cross Section mm²	Insulation Thickness PH mm	Insulation Thickness N mm	Lead Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3x 50 +25 SM	1.0	0.9	1.3	2.0	34.9	3377
3x 70 +35 SM	1.1	0.9	1.5	2.1	40.6	4676
3x 95 +50 SM	1.1	1.0	1.6	2.3	45.3	5979
3x 120 +70 SM	1.2	1.1	1.7	2.4	50.1	7407
3x 150 +70 SM	1.4	1.1	1.8	2.6	55.2	8787
3x 185 +95 SM	1.6	1.1	2.0	2.7	61.2	10910
3x 240+120 SM	1.7	1.2	2.1	3.0	68.8	13728
3x 300+150 SM	1.8	1.4	2.3	3.2	75.5	16802

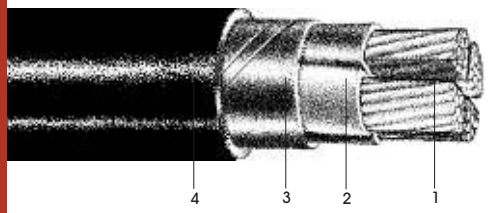
1-Stranded Shaped Conductor 2-XLPE Insulation 3-Extruded PVC Bedding 4-Lead Sheath 5-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm² or less
Maximum conductor temperature: 90°C

Electrical Data

Number of cores							AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
3	x	50	SM	+	25	RM	0.494	0.083	0.77
3	x	70	SM	+	35	RM	0.343	0.082	0.56
3	x	95	SM	+	50	SM	0.247	0.079	0.42
3	x	120	SM	+	70	SM	0.197	0.079	0.36
3	x	150	SM	+	70	SM	0.16	0.08	0.30
3	x	185	SM	+	95	SM	0.1286	0.08	0.26
3	x	240	SM	+	120	SM	0.0991	0.079	0.22
3	x	300	SM	+	150	SM	0.0803	0.078	0.19

ABHAR CABLE



IEC 60502-1 Cu/XLPE/PVC

Description:
Unarmoured 4 core cable with copper conductor & XLPE insulation.

★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
4x 1.5 RM	0.7	1.8	13.7	243
4x 2.5 RM	0.7	1.8	14.6	300
4x 4 RM	0.7	1.8	16.1	392
4x 6 RM	0.7	1.8	17.1	490
4x 10 RM	0.7	1.8	19.6	703
4x 16 RM	0.7	1.8	21.3	944
4x 25 RM	0.9	1.8	25.2	1404
4x 35 RM	0.9	1.8	27.6	1826
4x 50 SM	1.0	1.8	29.5	2016
4x 70 SM	1.1	2.0	34.6	2862
4x 95 SM	1.1	2.1	38.8	3872
4x 120 SM	1.2	2.3	43.1	4863
4x 150 SM	1.4	2.4	47.9	5984
4x 185 SM	1.6	2.6	53.3	7477
4x 240 SM	1.7	2.8	60.2	9733
4x 300 SM	1.8	3.0	66.5	12115

1-Stranded Shaped Conductor 2-XLPE Insulation 3-Taped PVC Filler 4-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm² or less
Maximum conductor temperature: 90°C

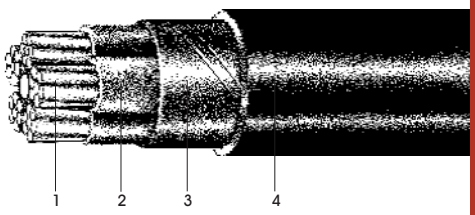
Electrical Data

Number of cores				AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
4	x	1.5	RM	15.43	0.111	21.50
4	x	2.5	RM	9.45	0.102	13.20
4	x	4	RM	5.88	0.097	8.25
4	x	6	RM	3.93	0.094	5.54
4	x	10	RM	2.33	0.09	3.32
4	x	16	RM	1.47	0.088	2.13
4	x	25	RM	0.927	0.089	1.38
4	x	35	RM	0.669	0.086	1.02
4	x	50	SM	0.494	0.083	0.77
4	x	70	SM	0.343	0.082	0.56
4	x	95	SM	0.247	0.079	0.42
4	x	120	SM	0.197	0.079	0.36
4	x	150	SM	0.16	0.08	0.30
4	x	185	SM	0.1286	0.08	0.26
4	x	240	SM	0.0991	0.079	0.22
4	x	300	SM	0.0803	0.078	0.19

ABHAR CABLE

Cu/XLPE/PVC **IEC 60502-1**

Description:
Unarmoured 5 core cable with copper conductor & XLPE insulation.



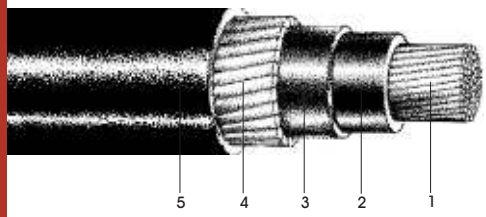
★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
5x1.5 RE	0.7	1.8	13.8	257
5x 5 RE	0.7	1.8	14.8	323
5x 4 RE	0.7	1.8	16.2	426
5x 6 RE	0.7	1.8	17.5	545
5x 10 RE	0.7	1.8	19.8	783
5x 16 RM	0.7	1.8	23.1	1125
5x 25 RM	0.9	1.8	27.5	1684
5x 35 RM	0.9	1.8	30.4	2202

1-Stranded Circular Conductor 2-XLPE Insulation 3-Extruded PVC Filler 4-PVC Sheathing
★ : Solid, circular conductor for cross sections of less than 16 mm²
Maximum conductor temperature: 90°C

Electrical Data

Number of cores				AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
5	x	1.5	RE	15.43	0.097	21.48
5	x	2.5	RE	9.45	0.09	13.19
5	x	4	RE	5.88	0.085	8.24
5	x	6	RE	3.93	0.08	5.53
5	x	10	RE	2.33	0.075	3.31
5	x	16	RM	1.47	0.091	2.13
5	x	25	RM	0.927	0.091	1.38
5	x	35	RM	0.668	0.089	1.02

ABHAR CABLE



IEC 60502-1 Cu/XLPE/Bd/AWA/PVC

Description:
Wire armoured single core cable
with copper conductor & XLPE insulation.

★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Wire Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
1x 16 RM	0.7	1.60	1.8	15.6	402
1x 25 RM	0.9	1.60	1.8	17.2	529
1x 35 RM	0.9	1.60	1.8	18.2	641
1x 50 RM	1.0	1.60	1.8	19.7	792
1x 70 RM	1.1	1.60	1.8	21.6	1032
1x 95 RM	1.1	1.60	1.8	23.3	1307
1x 120 RM	1.2	1.60	1.8	25.1	1573
1x 150 RM	1.4	1.60	1.8	26.9	1878
1x 185 RM	1.6	1.60	1.8	29.0	2270
1x 240 RM	1.7	1.60	1.9	32.1	2872
1x 300 RM	1.8	1.60	1.9	34.2	3475
1x 400 RM	2.0	2.00	2.1	39.6	4502
1x 500 RM	2.2	2.00	2.2	43.7	5642
1x 630 RM	2.4	2.00	2.3	47.2	7072

1-Stranded Circular Conductor 2-XLPE Insulation 3-Extruded PVC Bedding 4-Aluminium Wire Armour 5-PVC Sheathing

★ : Solid circular conductor for cross sections of less than 16 mm²
Maximum conductor temperature: 90°C

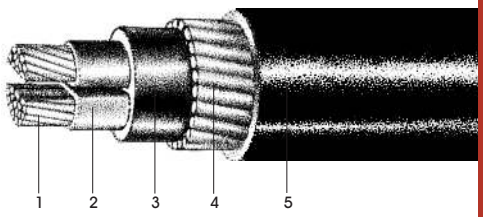
Electrical Data

Number of cores	AC resistance (Ohm/km)		REACTANCE (Ohm/km)		Voltage Drop (mV.A/m)	
	Trefoil	Flat	Trefoil	Flat	Trefoil	Flat
1 x 16 RM	1.47	1.47	0.143	0.261	2.19	2.31
1 x 25 RM	0.927	0.927	0.135	0.248	1.42	1.54
1 x 35 RM	0.668	0.668	0.129	0.239	1.06	1.17
1 x 50 RM	0.494	0.494	0.12	0.227	0.81	0.92
1 x 70 RM	0.342	0.342	0.114	0.217	0.59	0.70
1 x 95 RM	0.247	0.246	0.109	0.208	0.46	0.56
1 x 120 RM	0.196	0.196	0.105	0.201	0.38	0.48
1 x 150 RM	0.159	0.159	0.103	0.196	0.33	0.42
1 x 185 RM	0.1278	0.1271	0.100	0.19	0.28	0.37
1 x 240 RM	0.0981	0.0971	0.097	0.183	0.24	0.32
1 x 300 RM	0.0792	0.0778	0.095	0.178	0.21	0.29
1 x 400 RM	0.0632	0.0614	0.093	0.171	0.18	0.26
1 x 500 RM	0.0509	0.0486	0.09	0.165	0.16	0.24
1 x 630 RM	0.0414	0.0386	0.089	0.16	0.15	0.22

ABHAR CABLE

Cu/XLPE/Bd/SWA/PVC **IEC 60502-1**

Description:
Wire armoured 2 core cable with copper conductor & XLPE insulation.



★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Wire Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
2x 1.5 RM	0.7	0.80	1.8	14.0	341
2x 2.5 RM	0.7	0.80	1.8	14.8	390
2x 4 RM	0.7	0.80	1.8	16.0	464
2x 6 RM	0.7	0.80	1.8	16.8	533
2x 10 RM	0.7	1.25	1.8	19.8	835
2x 16 RM	0.7	1.25	1.8	21.2	1002
2x 25 RM	0.9	1.60	1.8	25.2	1512
2x 35 RM	0.9	1.60	1.8	27.2	1805
2x 50 SM	1.0	2.00	1.9	30.2	2174
2x 70 SM	1.1	2.00	2.0	33.9	2784
2x 95 SM	1.1	2.00	2.1	37.8	3506
2x 120 SM	1.2	2.00	2.2	41.0	4163
2x 150 SM	1.4	2.00	2.3	44.7	4902
2x 185 SM	1.6	2.50	2.5	50.5	6393
2x 240 SM	1.7	2.50	2.7	55.7	7810
2x 300 SM	1.8	2.50	2.8	61.1	9381

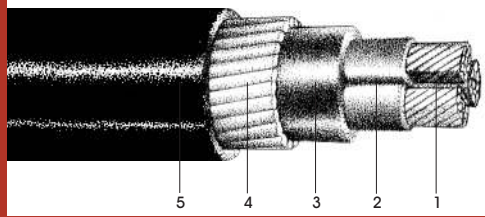
1-Stranded Shaped Conductor 2-XLPE Insulation 3-Extruded PVC Bedding 4-Galvanized Steel Wire Armour 5-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm² or less
Maximum conductor temperature: 90°C

Electrical Data

Number of cores	AC resistance(Ohm/km)	REACTANCE(Ohm/km)	Voltage Drop(mV.A/m)
2 x 1.5 RM	15.43	0.103	24.81
2 x 2.5 RM	9.45	0.095	15.23
2 x 4 RM	5.88	0.09	9.52
2 x 6 RM	3.93	0.087	6.39
2 x 10 RM	2.33	0.083	3.83
2 x 16 RM	1.47	0.081	2.45
2 x 25 RM	0.927	0.081	1.58
2 x 35 RM	0.668	0.079	1.16
2 x 50 SM	0.494	0.075	0.88
2 x 70 SM	0.342	0.075	0.64
2 x 95 SM	0.247	0.072	0.48
2 x 120 SM	0.196	0.072	0.40
2 x 150 SM	0.16	0.072	0.34
2 x 185 SM	0.1283	0.072	0.29
2 x 240 SM	0.0987	0.071	0.24
2 x 300 SM	0.0799	0.071	0.21

ABHAR CABLE



IEC 60502-1 Cu/XLPE/Bd/SWA/PVC

Description:
Wire armoured 3 core cable with copper conductor & XLPE insulation.

★ Number of Cores & Cross Section mm^2	Insulation Thickness mm	Wire Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3x 1.5 RM	0.7	0.8	1.8	14.5	366
3x 2.5 RM	0.7	0.8	1.8	15.3	423
3x 4 RM	0.7	0.8	1.8	16.6	515
3x 6 RM	0.7	0.8	1.8	17.5	607
3x 10 RM	0.7	1.25	1.8	20.7	955
3x 16 RM	0.7	1.25	1.8	22.2	1180
3x 25 RM	0.9	1.6	1.8	26.4	1772
3x 35 RM	0.9	1.6	1.8	28.6	2166
3x 50 SM	1.0	2.0	1.9	33.3	2777
3x 70 SM	1.1	2.0	2.0	37.6	3589
3x 95 SM	1.1	2.0	2.2	42.3	4627
3x 120 SM	1.2	2.0	2.3	45.8	5520
3x 150 SM	1.4	2.5	2.5	51.8	7087
3x 185 SM	1.6	2.5	2.6	56.9	8487
3x 240 SM	1.7	2.5	2.8	63.2	10603
3x 300 SM	1.8	2.5	3.0	69.0	12710

1-Stranded Shaped Conductor 2-XLPE Insulation 3-Extruded PVC Bedding 4-Galvanized Steel Wire Armour 5-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm^2 or less
Maximum conductor temperature: 90°C

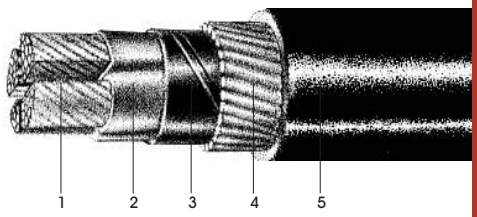
Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
3 x 1.5 RM	15.43	0.103	21.49
3 x 2.5 RM	9.45	0.095	13.19
3 x 4 RM	5.88	0.09	8.24
3 x 6 RM	3.93	0.087	5.54
3 x 10 RM	2.33	0.083	3.31
3 x 16 RM	1.47	0.081	2.12
3 x 25 RM	0.927	0.081	1.37
3 x 35 RM	0.669	0.079	1.01
3 x 50 SM	0.494	0.075	0.76
3 x 70 SM	0.343	0.075	0.55
3 x 95 SM	0.247	0.072	0.42
3 x 120 SM	0.197	0.072	0.35
3 x 150 SM	0.16	0.072	0.30
3 x 185 SM	0.129	0.072	0.25
3 x 240 SM	0.0996	0.071	0.21
3 x 300 SM	0.081	0.071	0.19

ABHAR CABLE

Cu/XLPE/Bd/SWA/PVC **IEC 60502-1**

Description:
Wire armoured 3½ core cable with copper conductor & XLPE insulation.



★ Number of Cores & Cross Section mm²	Insulation Thickness PH mm	N mm	Wire Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3x 50 +25 SM	1.0	0.9	2.0	2.0	36.3	3164
3x 70 +35 SM	1.1	0.9	2.0	2.1	41.6	4171
3x 95 +50 SM	1.1	1.0	2.0	2.3	46.1	5269
3x 120 +70 SM	1.2	1.1	2.5	2.5	51.9	6914
3x 150 +70 SM	1.4	1.1	2.5	2.6	56.9	8057
3x 185 +95 SM	1.6	1.1	2.5	2.8	62.4	9733
3x 240+120 SM	1.7	1.2	2.5	3.0	69.6	12137
3x 300+150 SM	1.8	1.4$_s$	2.5	3.2	75.9	14565

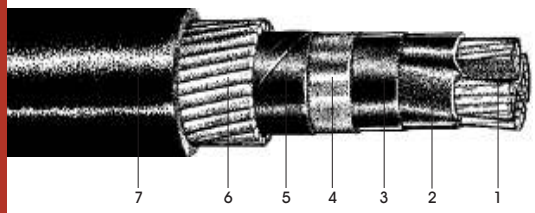
1-Stranded Shaped Conductor 2-XLPE Insulation 3-Extruded PVC Bedding 4-Galvanized Steel Wire Armour 5-PVC Sheathing

★ : Circular conductor for cross section of 35 mm² or less
Maximum conductor temperature: 90°C

Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
3 x 50 SM + 25 RM	0.494	0.083	0.77
3 x 70 SM + 35 RM	0.343	0.082	0.56
3 x 95 SM + 50 SM	0.247	0.079	0.42
3 x 120 SM + 70 SM	0.197	0.079	0.36
3 x 150 SM + 70 SM	0.16	0.08	0.30
3 x 185 SM + 95 SM	0.1286	0.08	0.26
3 x 240 SM + 120 SM	0.0991	0.079	0.22
3 x 300 SM + 150 SM	0.0803	0.078	0.19

ABHAR CABLE



IEC 60502-1 Cu/XLPE/Bd/Lsh/Bd/SWA/PVC

★★ **Description:**
Wire armoured 3½ core cable, lead sheath with copper conductor & XLPE insulation.

★ Number of Cores & Cross Section mm²	Insulation Thickness PH mm	N mm	Lead Thickness mm	Wire Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3x 50 +25 SM	1.0	0.9	1.2	2.00	2.2	42.2	5001
3x 70 +35 SM	1.1	0.9	1.2	2.00	2.3	47.9	6542
3x 95 +50 SM	1.1	1.0	1.3	2.50	2.5	53.8	8547
3x 120+70 SM	1.2	1.1	1.4	2.50	2.7	59.3	10260
3x 150 +70 SM	1.4	1.1	1.5	2.50	2.9	64.8	11992
3x 185 +95 SM	1.6	1.1	1.6	2.50	3.0	70.7	14435
3x240 +120 SM	1.7	1.2	1.7	2.50	3.2	78.4	17683
3x300+150 SM	1.8	1.4	1.8	3.15	3.5	86.9	22198

1-Stranded Shaped Conductor 2-XLPE Insulation 3-Extruded PVC Bedding 4-Lead Sheath 5-Extruded PVC Bedding 6-Galvanized Steel Wire Armour 5-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm² or less
★★: Single & other multi core are also available
Maximum conductor temperature: 90°C

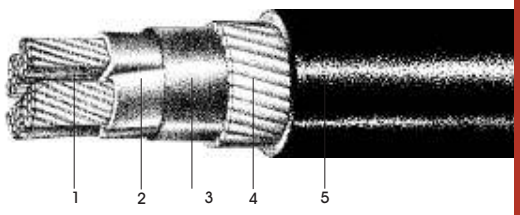
Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
3 x 50 SM + 25 RM	0.494	0.083	0.77
3 x 70 SM + 35 RM	0.343	0.082	0.56
3 x 95 SM + 50 SM	0.247	0.079	0.42
3 x 120 SM + 70 SM	0.197	0.079	0.36
3 x 150 SM + 70 SM	0.16	0.08	0.30
3 x 185 SM + 95 SM	0.1286	0.08	0.26
3 x 240 SM + 120 SM	0.0991	0.079	0.22
3 x 300 SM + 150 SM	0.0803	0.078	0.19

ABHAR CABLE

Cu/XLPE/Bd/SWA/PVC **IEC 60502-1**

Description:
Wire armoured 4 core cable with copper conductor & XLPE insulation.



★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Wire Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
4x 1.5 RM	0.7	0.80	1.8	15.3	408
4x 2.5 RM	0.7	0.80	1.8	16.2	479
4x 4 RM	0.7	0.80	1.8	17.7	594
4x 6 RM	0.7	1.25	1.8	19.7	836
4x 10 RM	0.7	1.25	1.8	22.1	1105
4x 16 RM	0.7	1.60	1.8	24.5	1520
4x 25 RM	0.9	1.60	1.8	28.4	2102
4x 35 RM	0.9	2.00	1.9	32.1	2807
4x 50 SM	1.0	2.00	2.0	36.3	3368
4x 70 SM	1.1	2.00	2.1	41.6	4477
4x 95 SM	1.1	2.00	2.3	46.1	5693
4x 120 SM	1.2	2.50	2.5	51.9	7375
4x 150 SM	1.4	2.50	2.6	56.9	8778
4x 185 SM	1.6	2.50	2.8	62.4	10562
4x 240 SM	1.7	2.50	3.0	69.6	13273
4x 300 SM	1.8	2.50	3.2	75.9	16000

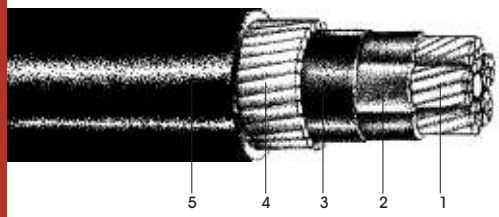
1-Stranded Shaped Conductor 2-XLPE Insulation 3-Extruded PVC Bedding 4-Galvanized Steel Wire Armour 5-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm² or less
Maximum conductor temperature: 90°C

Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
4 x 1.5 RM	15.43	0.111	0.15
4 x 2.5 RM	9.45	0.102	0.14
4 x 4 RM	5.88	0.097	0.13
4 x 6 RM	3.93	0.094	0.13
4 x 10 RM	2.33	0.09	0.12
4 x 16 RM	1.47	0.088	0.12
4 x 25 RM	0.927	0.089	0.12
4 x 35 RM	0.669	0.086	0.12
4 x 50 SM	0.494	0.083	0.12
4 x 70 SM	0.343	0.082	0.11
4 x 95 SM	0.247	0.079	0.11
4 x 120 SM	0.197	0.079	0.11
4 x 150 SM	0.16	0.08	0.11
4 x 185 SM	0.1286	0.08	0.11
4 x 240 SM	0.0991	0.079	0.11
4 x 300 SM	0.0803	0.078	0.11

ABHAR CABLE



IEC 60502-1 Cu/XLPE/Bd/SWA/PVC

Description:
Wire armoured 5 core cable with copper conductor & XLPE insulation.

★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Wire Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
5x 1.5 RE	0.7	0.80	1.8	15.4	425
5x 2.5 RE	0.7	0.80	1.8	16.4	507
5x 4 RE	0.7	1.25	1.8	18.7	754
5x 6 RE	0.7	1.25	1.8	20.1	901
5x 10 RE	0.7	1.25	1.8	22.3	1195
5x 16 RM	0.7	1.60	1.8	26.3	1765
5x 25 RM	0.9	2.00	1.9	32.0	2668
5x 35 RM	0.9	2.00	2.0	34.9	3299

1-Stranded Circular Conductor 2-XLPE Insulation 3-Extruded PVC Bedding 4-Galvanized Steel Wire Armour 5-PVC Sheathing

★ : Solid circular conductor for cross sections of less than 16 mm²
Maximum conductor temperature: 90°C

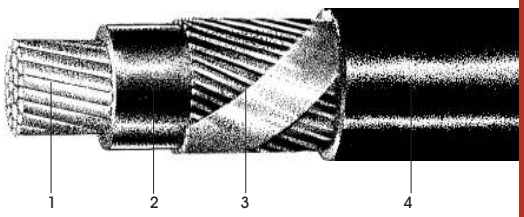
Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
5 x 1.5 RE	15.43	0.114	0.16
5 x 2.5 RE	9.45	0.105	0.15
5 x 4 RE	5.88	0.100	0.14
5 x 6 RE	3.93	0.097	0.13
5 x 10 RE	2.33	0.093	0.13
5 x 16 RM	1.47	0.091	0.13
5 x 25 RM	0.927	0.091	0.13
5 x 35 RM	0.668	0.089	0.12

ABHAR CABLE

Cu/PVC/CWS/PVC **IEC 60502-1**

Description:
Screened single core cable with copper conductor & PVC insulation.



★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
1x 1.5 /1.5 RE	0.8	1.8	8.4	99
1x 2.5 /2.5 RE	0.8	1.8	8.8	113
1x 4 /4 RE	1.0	1.8	9.7	153
1x 6 /6 RE	1.0	1.8	10.2	195
1x 10 /10 RE	1.0	1.8	11.0	278
1x 16 /16 RM	1.0	1.8	13.2	408
1x 25 /25 RM	1.2	1.8	14.8	603
1x 35 /35 RM	1.2	1.8	16.4	805

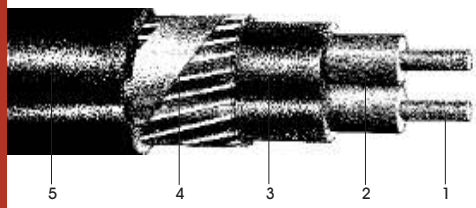
1-Stranded Circular Conductor 2-PVC Insulation 3-Copper Wire Screen 4-PVC Sheathing

★ : Solid circular conductor for cross sections of less than 16 mm²
Maximum conductor temperature: 70°C

Electrical Data

Number of cores	AC resistance (Ohm/km)		REACTANCE (Ohm/km)		Voltage Drop (mV.A/m)	
	Trefoil	Flat	Trefoil	Flat	Trefoil	Flat
1 x 1.5 / 1.5 RE	14.48	14.48	0.168	0.321	20.24	20.40
1 x 2.5 / 2.5 RE	8.87	8.87	0.155	0.305	12.45	12.61
1 x 4 / 4 RE	5.52	5.52	0.147	0.291	7.80	7.95
1 x 6 / 6 RE	3.69	3.69	0.14	0.282	5.26	5.41
1 x 10 / 10 RE	2.19	2.19	0.129	0.267	3.17	3.31
1 x 16 / 16 RM	1.38	1.38	0.129	0.259	2.05	2.18
1 x 25 / 25 RM	0.87	0.87	0.119	0.245	1.33	1.46
1 x 35 / 35 RM	0.627	0.627	0.113	0.236	0.99	1.11

ABHAR CABLE



IEC 60502-1 Cu/PVC/Bd/CWS/PVC

Description:
Screened 2 core cable with copper conductor & PVC insulation.

★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
2x 1.5 /1.5 RE	0.8	1.8	13.6	226
2x 2.5 /2.5 RE	0.8	1.8	14.4	264
2x 4 /4 RE	1.0	1.8	16.2	354
2x 6 /6 RE	1.0	1.8	17.2	437
2x 10 /10 RE	1.0	1.8	18.8	595
2x 16 /16 RM	1.0	1.8	21.3	831
2x 25 /25 RM	1.2	1.8	24.6	1128
2x 35 /35 RM	1.2	1.8	26.6	1381

1-Stranded Circular Conductor 2-PVC Insulation 3-Extruded PVC Filler 4-Copper Wire Screen 5-PVC Sheathing

★ : Solid circular conductor for cross sections of less than 16 mm²
Maximum conductor temperature: 70°C

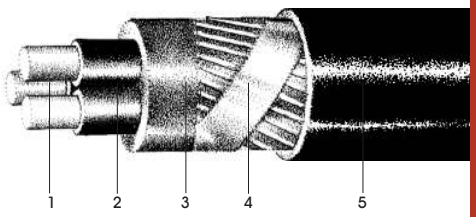
Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
2 x 1.5 / 1.5 RE	14.48	0.107	23.30
2 x 2.5 / 2.5 RE	8.87	0.098	14.31
2 x 4 / 4 RE	5.52	0.099	8.95
2 x 6 / 6 RE	3.69	0.095	6.02
2 x 10 / 10 RE	2.19	0.089	3.61
2 x 16 / 16 RM	1.38	0.087	2.31
2 x 25 / 25 RM	0.87	0.086	1.50
2 x 35 / 35 RM	0.627	0.083	1.10

ABHAR CABLE

Cu/PVC/Bd/CWS/PVC **IEC 60502-1**

Description:
Screened 3 core cable with
copper conductor & PVC insulation.



★ Number of Cores & Cross Section mm^2	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3x 1.5 /1.5 RE	0.8	1.8	14.1	251
3x 2.5 /2.5 RE	0.8	1.8	14.9	297
3x 4 /4 RE	1.0	1.8	16.9	407
3x 6 /6 RE	1.0	1.8	17.9	506
3x 10 /10 RE	1.0	1.8	19.8	705
3x 16 /16 RM	1.0	1.8	22.4	993
3x 25 /25 RM	1.2	1.8	25.9	1375
3x 35 /35 RM	1.2	1.8	28.1	1715

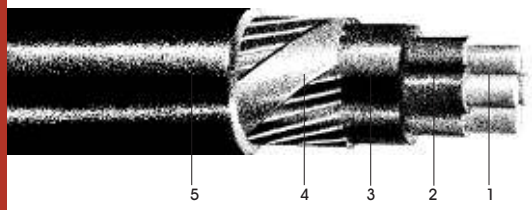
1-Stranded Circular Conductor 2-PVC Insulation 3-Extruded PVC Filler 4-Copper Wire Screen 5-PVC Sheathing

★ : Solid circular conductor for cross sections of less than 16 mm^2
Maximum conductor temperature: 70°C

Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
3 x 1.5 / 1.5 RE	14.48	0.107	20.17
3 x 2.5 / 2.5 RE	8.87	0.098	12.39
3 x 4 / 4 RE	5.52	0.099	7.75
3 x 6 / 6 RE	3.69	0.095	5.21
3 x 10 / 10 RE	2.19	0.089	3.13
3 x 16 / 16 RM	1.38	0.087	2.00
3 x 25 / 25 RM	0.87	0.086	1.29
3 x 35 / 35 RM	0.627	0.083	0.96

ABHAR CABLE



IEC 60502-1 Cu/PVC/Bd/CWS/PVC

Description:
Screened 4 core cable with copper conductor & PVC insulation.

★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
4x 1.5 /1.5 RE	0.8	1.8	14.8	281
4x 2.5 /2.5 RE	0.8	1.8	15.8	344
4x 4 /4 RE	1.0	1.8	18.0	473
4x 6 /6 RE	1.0	1.8	19.3	596
4x 10 /10 RE	1.0	1.8	21.2	833
4x 16 /16 RM	1.0	1.8	24.2	1185
4x 25 /25 RM	1.2	1.8	28.1	1667
4x 35 /35 RM	1.2	1.8	30.7	2099

1-Stranded Circular Conductor 2-PVC Insulation 3-PVC Extruded Filler 4-Copper Wire Screen 5-PVC Sheathing

★ : Solid circular conductor for cross section of less than 16 mm²
Maximum Conductor temperature: 70°C

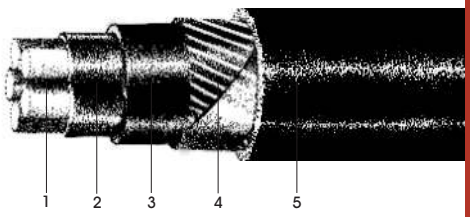
Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
4 x 1.5 / 1.5 RE	14.48	0.115	20.18
4 x 2.5 / 2.5 RE	8.87	0.106	12.40
4 x 4 / 4 RE	5.52	0.106	7.76
4 x 6 / 6 RE	3.69	0.102	5.22
4 x 10 / 10 RE	2.19	0.097	3.14
4 x 16 / 16 RM	1.38	0.094	2.01
4 x 25 / 25 RM	0.87	0.093	1.30
4 x 35 / 35 RM	0.627	0.09	0.96

ABHAR CABLE

Cu/PVC/Bd/CWS/PVC **IEC 60502-1**

Description:
Screened 5 core cable with
copper conductor & PVC insulation.



★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
5x 1.5 /1.5 RE	0.8	1.8	15.7	319
5x 2.5 /2.5 RE	0.8	1.8	16.8	394
5x 4 /4 RE	1.0	1.8	19.3	542
5x 6 /6 RE	1.0	1.8	20.7	689
5x 10 /10 RE	1.0	1.8	22.9	973
5x 16 /16. RM	1.0	1.8	26.2	1385
5x 25 /25 RM	1.2	1.8	30.7	1967
5x 35 /35 RM	1.2	1.9	33.8	2519

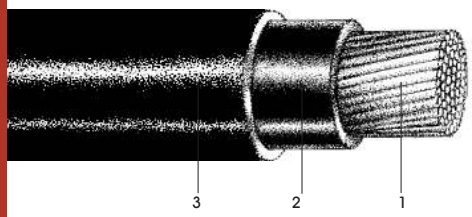
1-Stranded Circular Conductor 2-PVC Insulation 3-Extruded PVC Filler 4-Copper Wire Screen 5-PVC Sheathing

★ : Solid circular conductor for cross sections of less than 16 mm²
Maximum conductor temperature: 70°C

Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
5 x 1.5 / 1.5 RE	14.48	0.117	20.19
5 x 2.5 / 2.5 RE	8.87	0.109	12.40
5 x 4 / 4 RE	5.52	0.109	7.76
5 x 6 / 6 RE	3.69	0.105	5.22
5 x 10 / 10 RE	2.19	0.100	3.14
5 x 16 / 16 RM	1.38	0.097	2.01
5 x 25 / 25 RM	0.87	0.096	1.31
5 x 35 / 35 RM	0.627	0.093	0.97

ABHAR CABLE



IEC 60502-1 Al/PVC/PVC

Description:
Unarmoured single core cable with aluminium conductor & PVC insulation.

★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
1x 25 RM	1.2	1.4	11.4	169
1x 35 RM	1.2	1.4	12.5	208
1x 50 RM	1.4	1.4	14.0	265
1x 70 RM	1.4	1.4	15.7	342
1x 95 RM	1.6	1.5	18.0	455
1x 120 RM	1.6	1.5	19.6	542
1x 150 RM	1.8	1.6	21.5	663
1x 185 RM	2.0	1.7	23.9	821
1x 240 RM	2.2	1.8	26.9	1039
1x 300 RM	2.4	1.9	29.9	1283
1x 400 RM	2.6	2.0	33.4	1614
1x 500 RM	2.8	2.1	36.8	1989
1x 630 RM	2.8	2.2	40.6	2462

1-Stranded Circular Conductor 2-PVC Insulation 3-PVC Sheathing

★ : Solid circular conductor for cross sections of less than 16 mm²
Maximum conductor temperature: 70°C

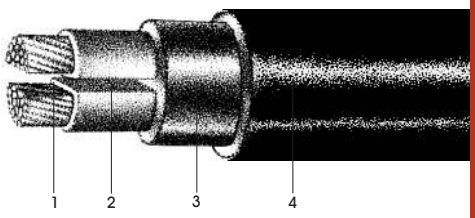
Electrical Data

Number of cores	AC resistance (Ohm/km)		REACTANCE (Ohm/km)		Voltage Drop (mv.A/m)	
	Trefoil	Flat	Trefoil	Flat	Trefoil	Flat
1 x 25 RM	1.442	1.442	0.106	0.244	2.11	2.25
1 x 35 RM	1.043	1.043	0.101	0.234	1.55	1.69
1 x 50 RM	0.77	0.77	0.099	0.226	1.17	1.30
1 x 70 RM	0.533	0.532	0.092	0.213	0.83	0.96
1 x 95 RM	0.385	0.385	0.09	0.205	0.63	0.75
1 x 120 RM	0.305	0.304	0.88	0.198	1.34	0.63
1 x 150 RM	0.248	0.248	0.088	0.194	0.44	0.55
1 x 185 RM	0.1983	0.1975	0.086	0.187	0.36	0.47
1 x 240 RM	0.1518	0.1508	0.085	0.18	0.30	0.40
1 x 300 RM	0.1222	0.1209	0.085	0.175	0.26	0.35
1 x 400 RM	0.0962	0.0945	0.083	0.168	0.22	0.31
1 x 500 RM	0.0762	0.074	0.082	0.163	0.19	0.27
1 x 630 RM	0.0609	0.058	0.08	0.157	0.17	0.24

ABHAR CABLE

Al/PVC/PVC **IEC 60502-1**

Description:
Unarmoured 2 core cable with aluminium conductor & PVC insulation.



★ Number of Cores & Cross Section mm^2	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
2x 25 RM	1.2	1.8	23.0	677
2x 35 RM	1.2	1.8	25.2	825
2x 50 SM	1.4	1.8	25.1	555
2x 70 SM	1.4	1.9	28.5	717
2x 95 SM	1.6	2.0	32.8	952
2x 120 SM	1.6	2.1	35.5	1154
2x 150 SM	1.8	2.2	39.2	1408
2x 185 SM	2.0	2.4	43.5	1754
2x 240 SM	2.2	2.5	48.7	2208
2x 300 SM	2.4	2.7	54.1	2751

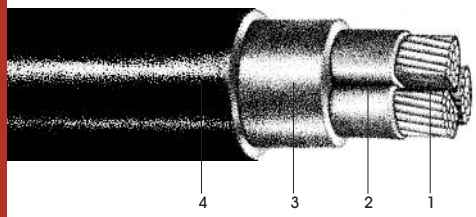
1-Stranded Shaped Conductor 2-PVC Insulation 3-Extruded PVC Filler 4-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm^2 or less
Maximum conductor temperature: 70°C

Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mv.A/m)
2 x 25 RM	1.442	0.086	2.41
2 x 35 RM	1.043	0.083	1.77
2 x 50 SM	0.77	0.084	1.33
2 x 70 SM	0.533	0.078	0.95
2 x 95 SM	0.385	0.078	0.71
2 x 120 SM	0.305	0.076	0.58
2 x 150 SM	0.248	0.076	0.49
2 x 185 SM	0.1982	0.075	0.41
2 x 240 SM	0.1517	0.074	0.33
2 x 300 SM	0.1221	0.074	0.28

ABHAR CABLE



IEC 60502-1 Al/PVC/PVC

Description:
Unarmoured 3 core cable with aluminium conductor & PVC insulation.

★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3x 25 RM	1.2	1.8	24.3	765
3x 35 RM	1.2	1.8	26.7	940
3x 50 SM	1.4	1.8	28.4	767
3x 70 SM	1.4	1.9	32.4	1006
3x 95 SM	1.6	2.1	37.3	1358
3x 120 SM	1.6	2.2	40.6	1646
3x 150 SM	1.8	2.3	44.8	2013
3x 185 SM	2.0	2.5	49.8	2507
3x 240 SM	2.2	2.7	56.1	3188
3x 300 SM	2.4	2.8	62.2	3939

1-Stranded Shaped Conductor 2-PVC Insulation 3-Extruded PVC Filler 4-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm² or less
Maximum conductor temperature: 70°C

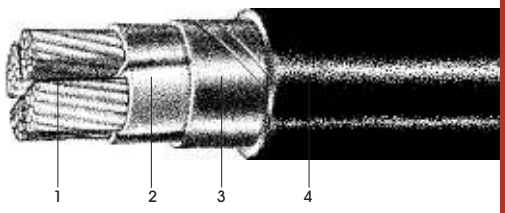
Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mv.A/m)
3 x 25 RM	1.442	0.086	2.09
3 x 35 RM	1.043	0.083	1.53
3 x 50 SM	0.771	0.084	1.16
3 x 70 SM	0.533	0.078	0.82
3 x 95 SM	0.385	0.078	0.61
3 x 120 SM	0.305	0.076	0.50
3 x 150 SM	0.249	0.076	0.42
3 x 185 SM	0.1986	0.075	0.35
3 x 240 SM	0.1523	0.074	0.29
3 x 300 SM	0.1228	0.074	0.25

ABHAR CABLE

Al/PVC/PVC **IEC 60502-1**

Description:
Unarmoured 4 core cable with aluminium conductor & PVC insulation.



★ Number of Cores & Cross Section mm^2	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
4x 25 RM	1.2	1.8	26.4	896
4x 35 RM	1.2	1.8	29.1	1108
4x 50 SM	1.4	1.9	31.8	996
4x 70 SM	1.4	2.0	36.1	1312
4x 95 SM	1.6	2.2	41.6	1769
4x 120 SM	1.6	2.3	45.2	2144
4x 150 SM	1.8	2.5	50.0	2646
4x 185 SM	2.0	2.6	55.3	3265
4x 240 SM	2.2	2.9	62.8	4179
4x 300 SM	2.4	3.1	69.7	5201

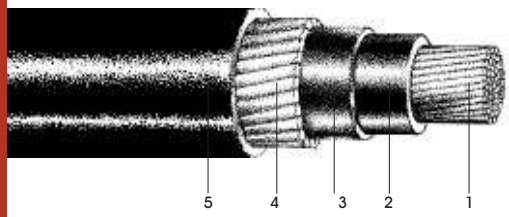
1-Stranded Shaped Conductor 2-PVC Insulation 3-Extruded PVC Filler 4-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm^2 or less
Maximum conductor temperature: 70°C

Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mv.A/m)
4 x 25 RM	1.442	0.094	2.10
4 x 35 RM	1.043	0.09	1.54
4 x 50 SM	0.77	0.091	1.16
4 x 70 SM	0.533	0.085	0.83
4 x 95 SM	0.385	0.085	0.62
4 x 120 SM	0.305	0.083	0.51
4 x 150 SM	0.249	0.084	0.43
4 x 185 SM	0.1984	0.082	0.36
4 x 240 SM	0.152	0.082	0.30
4 x 300 SM	0.1224	0.081	0.25

ABHAR CABLE



IEC 60502-1 Al/PVC/Bd/AWA/PVC

Description:
Wire armoured single core cable with aluminium conductor & PVC insulation.

★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Wire Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
1x 25 RM	1.2	1.6	1.8	17.7	406
1x 35 RM	1.2	1.6	1.8	18.8	464
1x 50 RM	1.4	1.6	1.8	20.4	548
1x 70 RM	1.4	1.6	1.8	22.1	659
1x 95 RM	1.6	1.6	1.8	24.2	801
1x 120 RM	1.6	1.6	1.8	25.7	908
1x 150 RM	1.8	1.6	1.8	27.4	1053
1x 185 RM	2.0	1.6	1.8	29.8	1235
1x 240 RM	2.2	1.6	1.9	32.9	1499
1x 300 RM	2.4	2.0	2.0	36.5	1882
1x 400 RM	2.6	2.0	2.1	40.5	2311

1-Stranded Circular Conductor 2-PVC Insulation 3-Extruded PVC Bedding 4-Aluminium Wire Armour 5-PVC Sheathing

★ : Solid circular conductor for cross sections of less than 16 mm²
Maximum conductor temperature: 70°C

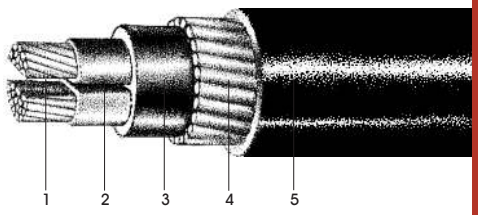
Electrical Data

Number of cores	AC resistance (Ohm/km)		REACTANCE (Ohm/km)		Voltage Drop (mv.A/m)	
	Trefoil	Flat	Trefoil	Flat	Trefoil	Flat
1 x 25 RM	1.442	1.442	0.138	0.25	2.14	2.26
1 x 35 RM	1.043	1.043	0.131	0.24	1.58	1.69
1 x 50 RM	0.77	0.77	0.126	0.232	1.20	1.31
1 x 70 RM	0.533	0.532	0.116	0.218	0.86	0.96
1 x 95 RM	0.385	0.385	0.112	0.21	0.65	0.75
1 x 120 RM	0.305	0.304	0.108	0.203	0.53	0.63
1 x 150 RM	0.248	0.248	0.106	0.198	0.45	0.55
1 x 185 RM	0.1979	0.1975	0.102	0.191	0.38	0.47
1 x 240 RM	0.1514	0.1508	0.100	0.184	0.31	0.40
1 x 300 RM	0.1217	0.1209	0.098	0.179	0.27	0.35
1 x 400 RM	0.0956	0.0945	0.095	0.173	0.23	0.31

ABHAR CABLE

Al/PVC/Bd/SWA/PVC **IEC 60502-1**

Description:
Wire armoured 2 core cable with aluminium conductor & PVC insulation.



★ Number of Cores & Cross Section mm^2	Insulation Thickness mm	Wire Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
2x 25 RM	1.2	1.6	1.8	26.2	1305
2x 35 RM	1.2	1.6	1.8	28.4	1512
2x 50 SM	1.4	2.0	1.9	31.8	1746
2x 70 SM	1.4	2.0	2.0	35.1	2063
2x 95 SM	1.6	2.0	2.2	40.1	2553
2x 120 SM	1.6	2.0	2.3	42.8	2884
2x 150 SM	1.8	2.5	2.4	47.5	3703
2x 185 SM	2.0	2.5	2.6	52.2	4399
2x 240 SM	2.2	2.5	2.8	58.0	5177
2x 300 SM	2.4	2.5	2.9	63.6	6076

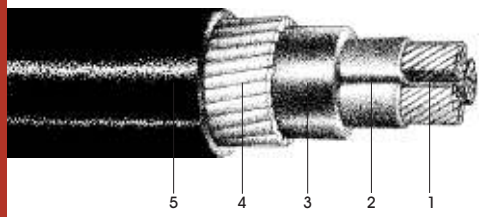
1-Stranded Shaped Conductor 2-PVC Insulation 3-Extruded PVC Bedding 4-Galvanized Steel Wire Armour 5-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm^2 or less
Maximum conductor temperature: 70°C

Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mv.A/m)
2 x 25 RM	1.442	0.086	2.41
2 x 35 RM	1.043	0.083	1.77
2 x 50 SM	0.77	0.084	1.33
2 x 70 SM	0.533	0.078	0.95
2 x 95 SM	0.385	0.078	0.71
2 x 120 SM	0.305	0.076	0.58
2 x 150 SM	0.248	0.076	0.49
2 x 185 SM	0.1982	0.075	0.41
2 x 240 SM	0.1517	0.074	0.33
2 x 300 SM	0.1221	0.074	0.28

ABHAR CABLE



IEC 60502-1 Al/PVC/Bd/SWA/PVC

Description:
Wire armoured 3 core cable with aluminium conductor & PVC insulation.

★ Number of Cores & Cross Section mm^2	Insulation Thickness mm	Wire Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3x 25 RM	1.2	1.6	1.8	27.5	1429
3x 35 RM	1.2	2.0	1.9	31.2	1891
3x 50 SM	1.4	2.0	2.0	35.3	2103
3x 70 SM	1.4	2.0	2.1	39.6	2568
3x 95 SM	1.6	2.0	2.2	44.4	3123
3x 120 SM	1.6	2.0	2.3	47.6	3566
3x 150 SM	1.8	2.5	2.5	53.6	4658
3x 185 SM	2.0	2.5	2.7	58.9	5443
3x 240 SM	2.2	2.5	2.9	65.6	6581
3x 300 SM	2.4	2.5	3.0	71.6	7680

1-Stranded Shaped Conductor 2-PVC Insulation 3-Extruded PVC Bedding 4-Galvanized Steel Wire Armour 5-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm^2 or less
Maximum conductor temperature: 70°C

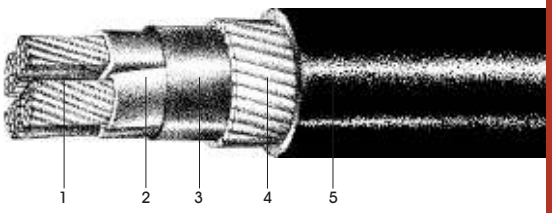
Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mv.A/m)
3 x 25 RM	1.442	0.086	2.09
3 x 35 RM	1.043	0.083	1.53
3 x 50 SM	0.771	0.084	1.16
3 x 70 SM	0.533	0.078	0.82
3 x 95 SM	0.385	0.078	0.61
3 x 120 SM	0.305	0.076	0.50
3 x 150 SM	0.249	0.076	0.42
3 x 185 SM	0.1986	0.075	0.35
3 x 240 SM	0.1523	0.074	0.29
3 x 300 SM	0.1228	0.074	0.25

ABHAR CABLE

Al/PVC/Bd/SWA/PVC **IEC 60502-1**

Description:
Wire armoured 4 core cable with aluminium conductor & PVC insulation.



★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Wire Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
4x 25 RM	1.2	2.0	1.8	30.6	1839
4x 35 RM	1.2	2.0	1.9	33.6	2161
4x 50 SM	1.4	2.0	2.1	39.0	2504
4x 70 SM	1.4	2.0	2.2	43.4	3032
4x 95 SM	1.6	2.5	2.4	49.9	4133
4x 120 SM	1.6	2.5	2.5	54.0	4792
4x 150 SM	1.8	2.5	2.7	59.1	5538
4x 185 SM	2.0	2.5	2.8	64.8	6551
4x 240 SM	2.2	2.5	3.1	72.2	7863
4x 300 SM	2.4	2.5	3.3	79.1	9276

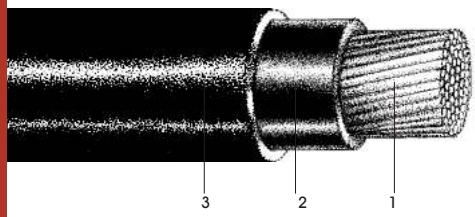
1-Stranded Shaped Conductor 2-PVC Insulation 3-Extruded PVC Bedding 4-Galvanized Steel Wire Armour 5-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm² or less
Maximum conductor temperature: 70°C

Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mv.A/m)
4 x 25 RM	1.442	0.094	2.10
4 x 35 RM	1.043	0.09	1.54
4 x 50 SM	0.77	0.091	1.16
4 x 70 SM	0.533	0.085	0.83
4 x 95 SM	0.385	0.085	0.62
4 x 120 SM	0.305	0.083	0.51
4 x 150 SM	0.249	0.084	0.43
4 x 185 SM	0.1984	0.082	0.36
4 x 240 SM	0.152	0.082	0.30
4 x 300 SM	0.1224	0.081	0.25

ABHAR CABLE



IEC 60502-1 AI/XLPE/PVC

Description:
Unarmoured single core cable with aluminium conductor & XLPE insulation.

★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
1x 25 RM	0.9	1.4	10.8	144
1x 35 RM	0.9	1.4	11.9	180
1x 50 RM	1.0	1.4	13.2	225
1x 70 RM	1.1	1.4	15.1	301
1x 95 RM	1.1	1.5	17.0	392
1x 120 RM	1.2	1.5	18.8	478
1x 150 RM	1.4	1.6	20.7	587
1x 185 RM	1.6	1.6	22.9	719
1x 240 RM	1.7	1.7	25.7	908
1x 300 RM	1.8	1.8	28.2	1121
1x 400 RM	2.0	1.9	32.0	1422
1x 500 RM	2.2	2.0	35.4	1766
1x 630 RM	2.4	2.2	39.8	2256

1-Stranded Circular Conductor 2-XLPE Insulation 3-PVC Sheathing

★ : Solid circular conductor for cross sections of less than 16 mm²
Maximum conductor temperature: 90°C

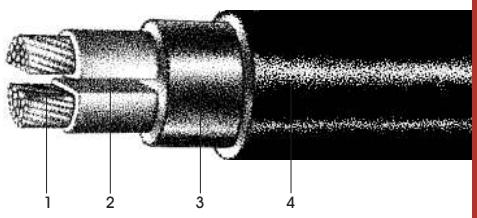
Electrical Data

Number of cores	AC resistance (Ohm/km)		REACTANCE (Ohm/km)		Voltage Drop (mv.A/m)	
	Trefoil	Flat	Trefoil	Flat	Trefoil	Flat
1 x 25 RM	1.539	1.539	0.103	0.244	2.24	2.39
1 x 35 RM	1.113	1.113	0.098	0.234	1.64	1.79
1 x 50 RM	0.822	0.822	0.096	0.226	1.24	1.37
1 x 70 RM	0.568	0.568	0.089	0.213	0.88	1.01
1 x 95 RM	0.411	0.41	0.087	0.204	0.66	0.78
1 x 120 RM	0.325	0.325	0.086	0.198	0.54	0.66
1 x 150 RM	0.265	0.264	0.086	0.193	0.46	0.57
1 x 185 RM	0.2115	0.2107	0.083	0.186	0.38	0.49
1 x 240 RM	0.1619	0.1608	0.082	0.179	0.31	0.41
1 x 300 RM	0.1303	0.1289	0.081	0.174	0.26	0.36
1 x 400 RM	0.1025	0.1007	0.08	0.167	0.23	0.31
1 x 500 RM	0.0811	0.0788	0.079	0.162	0.19	0.28
1 x 630 RM	0.0646	0.0617	0.079	0.157	0.17	0.25

ABHAR CABLE

AI/XLPE/PVC **IEC 60502-1**

Description:
Unarmoured 2 core cable with aluminium conductor & XLPE insulation.



★ Number of Cores & Cross Section mm^2	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
2x 25 RM	0.9	1.8	21.8	592
2x 35 RM	0.9	1.8	24.0	730
2x 50 SM	1.0	1.8	23.3	478
2x 70 SM	1.1	1.8	26.8	628
2x 95 SM	1.1	1.9	30.5	822
2x 120 SM	1.2	2.0	33.7	1018
2x 150 SM	1.4	2.2	37.5	1262
2x 185 SM	1.6	2.3	41.6	1557
2x 240 SM	1.7	2.5	46.7	1972
2x 300 SM	1.8	2.6	51.3	2423

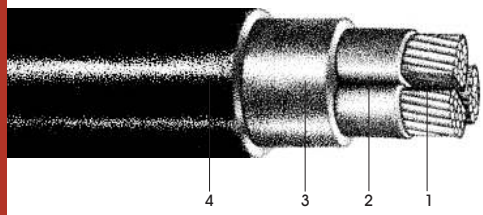
1-Stranded Shaped Conductor 2-XLPE Insulation 3-Extruded PVC Filler 4-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm^2 or less
Maximum conductor temperature: 90°C

Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mv.A/m)
2 x 25 RM	1.539	0.082	2.56
2 x 35 RM	1.113	0.079	1.88
2 x 50 SM	0.822	0.079	1.41
2 x 70 SM	0.568	0.075	1.00
2 x 95 SM	0.411	0.073	0.75
2 x 120 SM	0.325	0.073	0.61
2 x 150 SM	0.265	0.073	0.51
2 x 185 SM	0.2114	0.072	0.42
2 x 240 SM	0.1618	0.072	0.35
2 x 300 SM	0.1302	0.071	0.29

ABHAR CABLE



IEC 60502-1 AI/XLPE/PVC

Description:
Unarmoured 3 core cable with aluminium conductor & XLPE insulation.

★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3x 25 RM	0.9	1.8	23.0	661
3x 35 RM	0.9	1.8	25.4	823
3x 50 SM	1.0	1.8	26.5	658
3x 70 SM	1.1	1.9	31.0	895
3x 95 SM	1.1	2.0	34.8	1165
3x 120 SM	1.2	2.1	38.4	1445
3x 150 SM	1.4	2.3	42.8	1791
3x 185 SM	1.6	2.4	47.7	2215
3x 240 SM	1.7	2.6	53.4	2806
3x 300 SM	1.8	2.7	59.1	3458

1-Stranded Shaped Conductor 2-XLPE Insulation 3-Extruded PVC Filler 4-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm² or less
Maximum conductor temperature: 90°C

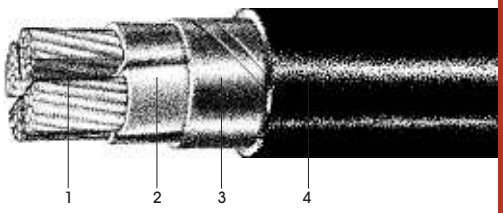
Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mv.A/m)
3 x 25 RM	1.539	0.082	2.22
3 x 35 RM	1.113	0.079	1.62
3 x 50 SM	0.822	0.079	1.22
3 x 70 SM	0.569	0.075	0.87
3 x 95 SM	0.411	0.073	0.65
3 x 120 SM	0.325	0.073	0.53
3 x 150 SM	0.265	0.073	0.44
3 x 185 SM	0.2119	0.072	0.37
3 x 240 SM	0.1624	0.072	0.30
3 x 300 SM	0.1309	0.071	0.26

ABHAR CABLE

Al/XLPE/PVC **IEC 60502-1**

Description:
Unarmoured 4 core cable with aluminium conductor & XLPE insulation.



★ Number of Cores & Cross Section mm^2	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
4x 25 RM	0.9	1.8	25.0	772
4x 35 RM	0.9	1.8	27.6	961
4x 50 SM	1.0	1.8	29.4	826
4x 70 SM	1.1	2.0	34.5	1159
4x 95 SM	1.1	2.1	38.7	1510
4x 120 SM	1.2	2.3	43.0	1894
4x 150 SM	1.4	2.4	47.6	2321
4x 185 SM	1.6	2.6	53.1	2898
4x 240 SM	1.7	2.8	59.9	3670
4x 300 SM	1.8	3.0	66.1	4555

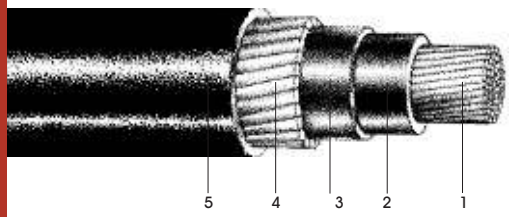
1-Stranded Shaped Conductor 2-XLPE Insulation 3-Extruded PVC Filler 4-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm^2 or less
Maximum conductor temperature: 90°C

Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mv.A/m)
4 x 25 RM	1.539	0.089	2.22
4 x 35 RM	1.113	0.086	1.63
4 x 50 SM	0.822	0.086	1.23
4 x 70 SM	0.568	0.082	0.87
4 x 95 SM	0.411	0.081	0.65
4 x 120 SM	0.325	0.08	0.53
4 x 150 SM	0.265	0.081	0.45
4 x 185 SM	0.2116	0.08	0.38
4 x 240 SM	0.162	0.079	0.31
4 x 300 SM	0.1304	0.078	0.26

ABHAR CABLE



IEC 60502-1 Al/XLPE/Bd/AWA/PVC

Description:
Wire armoured single core cable
with aluminium conductor & XLPE insulation.

★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Wire Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
1x 25 RM	0.9	1.6	1.8	17.1	372
1x 35 RM	0.9	1.6	1.8	18.2	427
1x 50 RM	1.0	1.6	1.8	19.6	498
1x 70 RM	1.1	1.6	1.8	21.5	604
1x 95 RM	1.1	1.6	1.8	23.2	721
1x 120 RM	1.2	1.6	1.8	24.9	835
1x 150 RM	1.4	1.6	1.8	26.6	962
1x 185 RM	1.6	1.6	1.8	28.8	1129
1x 240 RM	1.7	1.6	1.9	31.9	1364
1x 300 RM	1.8	1.6	1.9	34.2	1606
1x 400 RM	2.0	2.0	2.1	39.3	2119
1x 500 RM	2.2	2.0	2.2	42.8	2523
1x 630 RM	2.4	2.0	2.3	46.9	3077

1-Stranded Circular Conductor 2-XLPE Insulation 3-Extruded PVC Bedding 4-Aluminium Wire Armour 5-PVC Sheathing

★ : Solid circular conductor for cross sections of less than 16 mm²
Maximum conductor temperature: 90°C

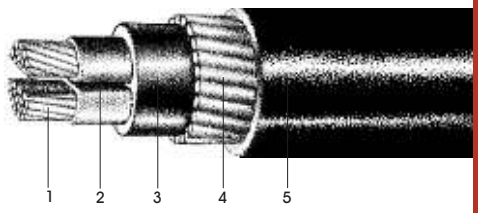
Electrical Data

Number of cores	AC resistance (Ohm/km)		REACTANCE (Ohm/km)		Voltage Drop(mV.A/m)	
	Trefoil	Flat	Trefoil	Flat	Trefoil	Flat
1 x 25 RM	1.539	1.539	0.136	0.249	2.27	2.39
1 x 35 RM	1.113	1.113	0.129	0.239	1.68	1.79
1 x 50 RM	0.822	0.822	0.124	0.231	1.27	1.38
1 x 70 RM	0.568	0.568	0.115	0.218	0.91	1.01
1 x 95 RM	0.411	0.41	0.109	0.209	0.68	0.79
1 x 120 RM	0.325	0.325	0.106	0.203	0.56	0.66
1 x 150 RM	0.265	0.264	0.104	0.198	0.48	0.57
1 x 185 RM	0.2111	0.2107	0.101	0.191	0.40	0.49
1 x 240 RM	0.1615	0.1608	0.098	0.184	0.33	0.41
1 x 300 RM	0.1298	0.1289	0.095	0.178	0.28	0.36
1 x 400 RM	0.1018	0.1007	0.093	0.172	0.24	0.32
1 x 500 RM	0.0803	0.0788	0.091	0.167	0.21	0.28
1 x 630 RM	0.0637	0.0617	0.089	0.161	0.18	0.25

ABHAR CABLE

Al/XLPE/Bd/SWA/PVC **IEC 60502-1**

Description:
Wire armoured 2 core cable
with aluminium conductor & XLPE insulation.



★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Wire Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
2x 25 RM	0.9	1.6	1.8	25.0	1175
2x 35 RM	0.9	1.6	1.8	27.2	1372
2x 50 SM	1.0	2.0	1.9	30.0	1580
2x 70 SM	1.1	2.0	2.0	33.7	1899
2x 95 SM	1.1	2.0	2.1	37.7	2324
2x 120 SM	1.2	2.0	2.2	41.0	2680
2x 150 SM	1.4	2.0	2.3	44.5	3069
2x 185 SM	1.6	2.5	2.5	50.4	4102
2x 240 SM	1.7	2.5	2.7	55.5	4776
2x 300 SM	1.8	2.5	2.8	60.8	5596

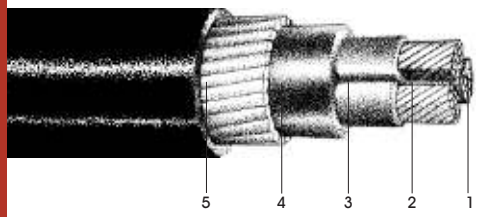
1-Stranded Shaped Conductor 2-XLPE Insulation 3-Extruded PVC Bedding 4-Galvanized Steel Wire Armour 5-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm² or less
Maximum conductor temperature: 90°C

Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
2 x 25 RM	1.539	0.082	2.56
2 x 35 RM	1.113	0.079	1.88
2 x 50 SM	0.822	0.079	1.41
2 x 70 SM	0.568	0.075	1.00
2 x 95 SM	0.411	0.073	0.75
2 x 120 SM	0.325	0.073	0.61
2 x 150 SM	0.265	0.073	0.51
2 x 185 SM	0.2114	0.072	0.42
2 x 240 SM	0.1618	0.072	0.35
2 x 300 SM	0.1302	0.071	0.29

ABHAR CABLE



IEC 60502-1 Al/XLPE/Bd/SWA/PVC

Description:
Wire armoured 3 core cable with aluminium conductor & XLPE insulation.

★ Number of Cores & Cross Section mm^2	Insulation Thickness mm	Wire Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3x 25 RM	0.9	1.6	1.8	26.2	1296
3x 35 RM	0.9	1.6	1.8	28.6	1517
3x 50 SM	1.0	2.0	1.9	33.2	1889
3x 70 SM	1.1	2.0	2.0	37.5	2310
3x 95 SM	1.1	2.0	2.2	42.1	2852
3x 120 SM	1.2	2.0	2.3	45.7	3292
3x 150 SM	1.4	2.5	2.5	51.6	4339
3x 185 SM	1.6	2.5	2.6	56.7	5051
3x 240 SM	1.7	2.5	2.8	62.9	6065
3x 300 SM	1.8	2.5	3.0	68.7	7037

1-Stranded Shaped Conductor 2-XLPE Insulation 3-Extruded PVC Bedding 4-Galvanized Steel Wire Armour 5-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm^2 or less
Maximum conductor temperature: 90°C

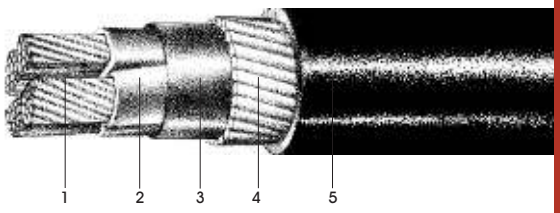
Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
3 x 25 RM	0.927	0.081	1.37
3 x 35 RM	0.669	0.079	1.01
3 x 50 SM	0.494	0.075	0.76
3 x 70 SM	0.343	0.075	0.55
3 x 95 SM	0.247	0.072	0.42
3 x 120 SM	0.197	0.072	0.35
3 x 150 SM	0.16	0.072	0.30
3 x 185 SM	0.129	0.072	0.25
3 x 240 SM	0.0996	0.071	0.21
3 x 300 SM	0.081	0.071	0.19

ABHAR CABLE

AI/XLPE/Bd/SWA/PVC **IEC 60502-1**

Description:
Wire armoured 4 core cable with aluminium conductor & XLPE insulation.



★ Number of Cores & Cross Section mm²	Insulation Thickness mm	Wire Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
4x 25 RM	0.9	1.6	1.8	28.2	1455
4x 35 RM	0.9	2.0	1.9	32.1	1942
4x 50 SM	1.0	2.0	2.0	36.1	2176
4x 70 SM	1.1	2.0	2.1	41.5	2773
4x 95 SM	1.1	2.0	2.3	46.0	3330
4x 120 SM	1.2	2.5	2.5	51.8	4405
4x 150 SM	1.4	2.5	2.6	56.6	5113
4x 185 SM	1.6	2.5	2.8	62.2	5982
4x 240 SM	1.7	2.5	3.0	69.3	7207
4x 300 SM	1.8	2.5	3.2	75.5	8436

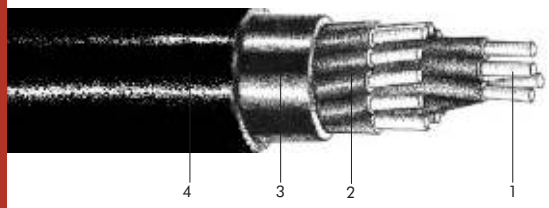
1-Stranded Shaped Conductor 2-XLPE Insulation 3-Extruded PVC Bedding 4-Galvanized Steel Wire Armour 5-PVC Sheathing

★ : Circular conductor for cross sections of 35 mm² or less
Maximum conductor temperature: 90°C

Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
4 x 25 RM	0.927	0.089	1.38
4 x 35 RM	0.669	0.086	1.02
4 x 50 SM	0.494	0.083	0.77
4 x 70 SM	0.343	0.082	0.56
4 x 95 SM	0.247	0.079	0.42
4 x 120 SM	0.197	0.079	0.36
4 x 150 SM	0.16	0.08	0.30
4 x 185 SM	0.1286	0.08	0.26
4 x 240 SM	0.0991	0.079	0.22
4 x 300 SM	0.0803	0.078	0.19

ABHAR CABLE



IEC 60502-1 **Cu/PVC/PVC**

Description:
Unarmoured control cable with copper conductor & PVC insulation.
For controlling, operating and signalling.

Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
5 x1.5 RE	0.8	1.8	14.3	278
7 x1.5 RE	0.8	1.8	13.1	239
8 x1.5 RE	0.8	1.8	14.5	272
10 x1.5 RE	0.8	1.8	16.1	327
12 x1.5 RE	0.8	1.8	16.6	373
16 x1.5 RE	0.8	1.8	18.2	469
18 x1.5 RE	0.8	1.8	19.2	519
20 x1.5 RE	0.8	1.8	20.2	569
24 x1.5 RE	0.8	1.8	22.2	669
30 x1.5 RE	0.8	1.8	23.4	803
40 x1.5 RE	0.8	1.8	26.2	1035
61 x1.5 RE	0.8	1.9	31.7	1527

1-Solid Conductor 2-PVC Insulation (Sequentially numbered for identification) 3-Extruded PVC Filler 4-PVC Sheathing.

Maximum conductor temperature: 70°C

Conductor cross-section of 1 and 2.5 mm² are also available.

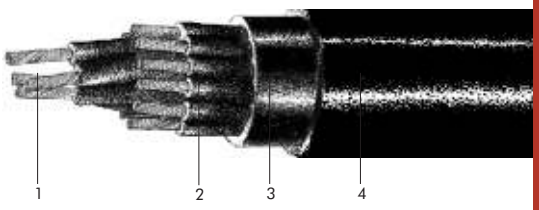
Electrical Data

AC resistance	: 14.48	(Ohm/km)

Cu/PVC/PVC

IEC 60502-1

Description:
Unarmoured control cable with copper conductor & PVC insulation.
For controlling, operating and signalling.



Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
5 x2.5 RM	0.8	1.8	16.2	373
7 x2.5 RM	0.8	1.8	15.2	338
8 x2.5 RM	0.8	1.8	16.9	385
10 x2.5 RM	0.8	1.8	18.9	466
12 x2.5 RM	0.8	1.8	19.6	536
16 x2.5 RM	0.8	1.8	21.6	682
18 x2.5 RM	0.8	1.8	22.7	756
20 x2.5 RM	0.8	1.8	23.9	831
24 x2.5 RM	0.8	1.8	26.4	981
30 x2.5 RM	0.8	1.8	27.9	1187
40 x2.5 RM	0.8	1.9	31.8	1553
61 x2.5 RM	0.8	2.1	38.4	2321

1-Stranded Circular Conductor 2-PVC Insulation (Sequentially numbered for identification) 3-Extruded PVC Filler 4-PVC Sheathing.

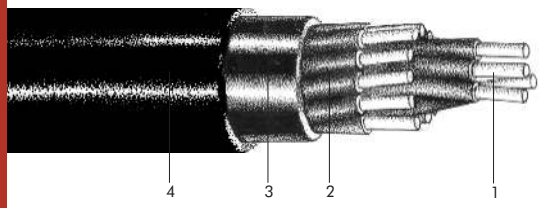
Maximum conductor temperature: 70°C

Conductor cross-section of 1.5 mm² are also available.

Electrical Data

AC resistance	: 8.87	(Ohm/km)

ABHAR CABLE



IEC 60502-1 **Cu/XLPE/PVC**

Description:
Unarmoured control cable with copper conductor & XLPE insulation.
For controlling, operating and signalling.

Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
5 x1.5 RE	0.7	1.8	13.8	257
7 x1.5 RE	0.7	1.8	12.5	215
8 x1.5 RE	0.7	1.8	13.8	244
10 x1.5 RE	0.7	1.8	15.3	293
12 x1.5 RE	0.7	1.8	15.7	332
6 x1.5 RE	0.7	1.8	17.3	417
18 x1.5 RE	0.7	1.8	18.1	460
20 x1.5 RE	0.7	1.8	19.0	504
24 x1.5 RE	0.7	1.8	21.0	592
30 x1.5 RE	0.7	1.8	22.1	708
40 x1.5 RE	0.7	1.8	24.7	909
61 x1.5 RE	0.7	1.9	29.9	1338

1-Solid Conductor 2-XLPE Insulation (Sequentially numbered for identification) 3-Extruded PVC Filler 4-PVC Sheathing.

Maximum conductor temperature: 90°C

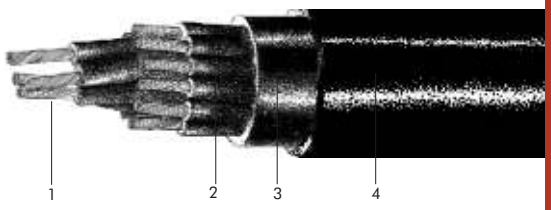
Conductor cross-section of 1 and 2.5 mm² are also available.

Electrical Data

AC resistance	: 15.43	(Ohm/km)

Cu/XLPE/PVC **IEC 60502-1**

Description:
Unarmoured control cable with copper conductor & XLPE insulation.
For controlling, operating and signalling.



Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
5 x2.5 RM	0.7	1.8	15.7	347
7 x2.5 RM	0.7	1.8	14.6	308
8 x2.5 RM	0.7	1.8	16.2	350
10 x2.5 RM	0.7	1.8	18.1	424
12 x2.5 RM	0.7	1.8	18.7	486
16 x2.5 RM	0.7	1.8	20.6	616
18 x2.5 RM	0.7	1.8	21.7	683
20 x2.5 RM	0.7	1.8	22.9	750
24 x2.5 RM	0.7	1.8	25.2	884
30 x2.5 RM	0.7	1.8	26.6	1067
40 x2.5 RM	0.7	1.8	30.1	1381
61 x2.5 RM	0.7	2.0	36.4	2063

1-Stranded Circular Conductor 2-XLPE Insulation (Sequentially numbered for identification) 3-Extruded PVC Filler 4-PVC Sheathing.

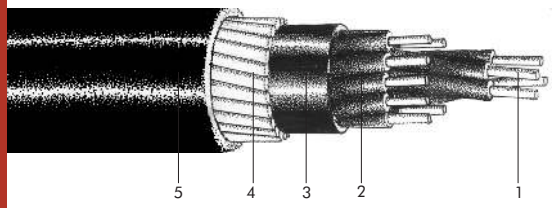
Maximum conductor temperature: 90°C

Conductor cross-section of 1 and 1.5 mm² are also available.

Electrical Data

AC resistance	: 9.45	(Ohm/km)

ABHAR CABLE



IEC 60502-1 **Cu/PVC/Bd/SWA/PVC**

Description:
Wire armoured control cable with copper conductor & PVC insulation.
For controlling, operating and signalling.

Number of Cores & Cross Section mm²	Insulation Thickness mm	Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
5 x1.5 RE	0.8	0.8	1.8	15.9	455
7 x1.5 RE	0.8	0.8	1.8	16.9	505
8 x1.5 RE	0.8	1.25	1.8	19.3	702
10 x1.5 RE	0.8	1.25	1.8	20.9	795
12 x1.5 RE	0.8	1.25	1.8	21.4	863
16 x1.5 RE	0.8	1.25	1.8	23.0	1007
18 x1.5 RE	0.8	1.6	1.8	24.7	1225
20 x1.5 RE	0.8	1.6	1.8	25.7	1312
24 x1.5 RE	0.8	1.6	1.8	27.7	1470
30 x1.5 RE	0.8	2.0	1.8	29.9	1839
40 x1.5 RE	0.8	2.0	1.9	33.0	2226
61 x1.5 RE	0.8	2.0	2.1	39.0	3001

1-Solid Conductor 2-PVC Insulation (Sequentially numbered for identification) 3-Extruded PVC Bedding 4-Galvanized Steel Wire Armour 5-PVC Sheathing.

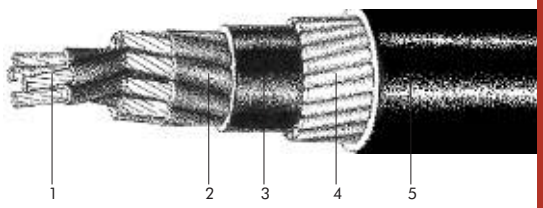
Maximum conductor temperature: 70°C
Conductor cross-section of 1 and 2.5 mm² are also available.

Electrical Data

AC resistance : 14.48	(Ohm/km)

Cu/PVC/Bd/SWA/PVC IEC 60502-1

Description:
Wire armoured control cable with copper conductor & PVC insulation.
For controlling, operating and signalling.



Number of Cores & Cross Section mm²	Insulation Thickness mm	Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
5 x2.5 RM	0.8	0.8	1.8	17.8	575
7 x2.5 RM	0.8	1.25	1.8	20.0	781
8 x2.5 RM	0.8	1.25	1.8	21.7	876
10 x2.5 RM	0.8	1.25	1.8	23.7	1017
12 x2.5 RM	0.8	1.25	1.8	24.4	1110
16 x2.5 RM	0.8	1.6	1.8	27.1	1465
18 x2.5 RM	0.8	1.6	1.8	28.2	1576
20 x2.5 RM	0.8	1.6	1.8	29.6	1705
24 x2.5 RM	0.8	2.0	1.9	33.2	2173
30 x2.5 RM	0.8	2.0	1.9	34.7	2438
40 x2.5 RM	0.8	2.0	2.0	38.4	2977
61 x2.5 RM	0.8	2.0	2.2	45.6	4076

1-Stranded Circular Conductor 2-PVC Insulation (Sequentially numbered for identification) 3-Extruded PVC Bedding 4-Galvanized Steel Wire Armour 5-PVC Sheathing.

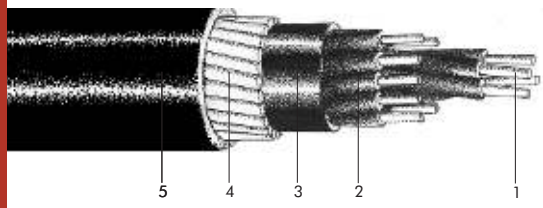
Maximum conductor temperature: 70°C

Conductor cross-section of 1 and 1.5 mm² are also available.

Electrical Data

AC resistance : 8.87	(Ohm/km)

ABHAR CABLE



IEC 60502-1 **Cu/XLPE/Bd/SWA/PVC**

Description:
Wire armoured control cable with copper conductor & XLPE insulation.
For controlling, operating and signalling.

Number of Cores & Cross Section mm²	Insulation Thickness mm	Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
5 x1.5 RE	0.7	0.8	1.8	15.4	425
7 x1.5 RE	0.7	0.8	1.8	16.3	467
8 x1.5 RE	0.7	1.25	1.8	18.5	652
10 x1.5 RE	0.7	1.25	1.8	20.1	738
12 x1.5 RE	0.7	1.25	1.8	20.5	789
16 x1.5 RE	0.7	1.25	1.8	22.1	921
18 x1.5 RE	0.7	1.25	1.8	22.9	987
20 x1.5 RE	0.7	1.6	1.8	24.5	1193
24 x1.5 RE	0.7	1.6	1.8	26.5	1356
30 x1.5 RE	0.7	1.6	1.8	27.6	1510
40 x1.5 RE	0.7	2.0	1.9	31.5	2017
61 x1.5 RE	0.7	2.0	2.0	37.0	2734

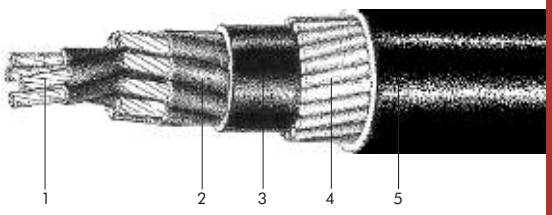
1-Solid Conductor 2-XLPE Insulation (Sequentially numbered for identification) 3-Extruded PVC Bedding 4-Galvanized Steel Wire Armour 5-PVC Sheathing.
Maximum conductor temperature: 90°C
Conductor cross-section of 1 and 2.5 mm² are also available.

Electrical Data

AC resistance : 15.43	(Ohm/km)

Cu/XLPE/Bd/SWA/PVC IEC 60502-1

Description:
Wire armoured control cable with copper conductor & XLPE insulation.
For controlling, operating and signalling.



Number of Cores & Cross Section mm²	Insulation Thickness mm	Armour Diameter mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
5 x2.5 RM	0.7	0.8	1.8	17.3	542
7 x2.5 RM	0.7	1.25	1.8	19.4	739
8 x2.5 RM	0.7	1.25	1.8	21.0	829
10 x2.5 RM	0.7	1.25	1.8	22.9	951
12 x2.5 RM	0.7	1.25	1.8	23.5	1036
16 x2.5 RM	0.7	1.6	1.8	26.1	1362
18 x2.5 RM	0.7	1.6	1.8	27.2	1466
20 x2.5 RM	0.7	1.6	1.8	28.4	1588
24 x2.5 RM	0.7	2.0	1.8	31.7	2005
30 x2.5 RM	0.7	2.0	1.9	33.4	2261
40 x2.5 RM	0.7	2.0	2.0	37.0	2762
61 x2.5 RM	0.7	2.0	2.2	43.8	3749

1-Stranded Circular Conductor 2-XLPE Insulation (Sequentially numbered for identification) 3-Extruded PVC Bedding 4-Galvanized Steel Wire Armour 5-PVC Sheathing.

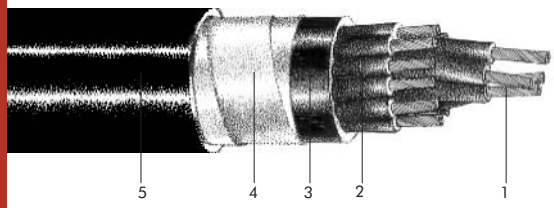
Maximum conductor temperature: 90°C

Conductor cross-section of 1 and 1.5 mm² are also available.

Electrical Data

AC resistance : 9.45	(Ohm/km)

ABHAR CABLE



IEC 60502-1 **Cu/PVC/Bd/DTA/PVC**

Description:
Tape armoured control cable with copper conductor & PVC insulation.
For controlling, operating and signalling.

Number of Cores & Cross Section mm²	Insulation Thickness mm	Tape Armour Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
8 x2.5 RM	0.8	0.2	1.8	20.7	629
10 x2.5 RM	0.8	0.2	1.8	22.7	740
12 x2.5 RM	0.8	0.2	1.8	23.4	820
16 x2.5 RM	0.8	0.2	1.8	25.4	995
18 x2.5 RM	0.8	0.2	1.8	26.5	1085
20 x2.5 RM	0.8	0.2	1.8	27.7	1177
24 x2.5 RM	0.8	0.2	1.8	30.4	1364
30 x2.5 RM	0.8	0.2	1.8	31.9	1592
40 x2.5 RM	0.8	0.2	1.9	35.7	2011
61 x2.5 RM	0.8	0.5	2.2	44.1	3182

1-Stranded Circular Conductor 2-PVC Insulation (Sequentially numbered for identification) 3-Extruded PVC Bedding 4-Galvanized Steel Tape Armour 5-PVC Sheathing.
Maximum conductor temperature: 70°C
Conductor cross-section of 1 and 1.5 mm² are also available.

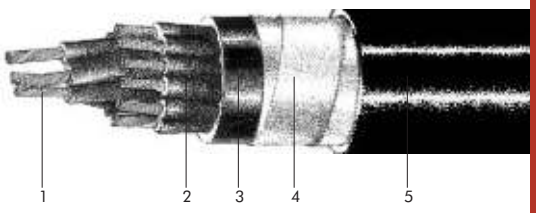
Electrical Data

AC resistance :	8.87	(Ohm/km)

Cu/XLPE/Bd/DTA/PVC

IEC 60502-1

Description:
Tape armoured control cable with copper conductor & XLPE insulation.
For controlling, operating and signalling.



Number of Cores & Cross Section mm²	Insulation Thickness mm	Tape Armour Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
10 x2.5 RM	0.7	0.2	1.8	21.9	686
12 x2.5 RM	0.7	0.2	1.8	22.5	757
16 x2.5 RM	0.7	0.2	1.8	24.4	915
18 x2.5 RM	0.7	0.2	1.8	25.5	997
20 x2.5 RM	0.7	0.2	1.8	26.7	1082
24 x2.5 RM	0.7	0.2	1.8	29.0	1250
30 x2.5 RM	0.7	0.2	1.8	30.6	1453
40 x2.5 RM	0.7	0.2	1.9	34.3	1832
61 x2.5 RM	0.7	0.2	2.1	41.0	2647

1-Stranded Circular Conductor 2-XLPE Insulation (Sequentially numbered for identification) 3-Extruded PVC Bedding 4-Galvanized Steel Tape Armour 5-PVC Sheathing.

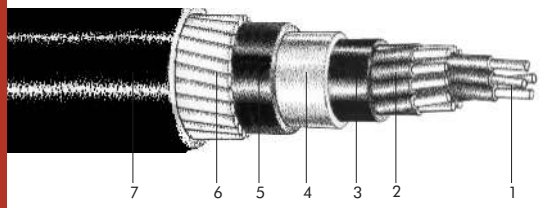
Maximum conductor temperature: 90°C

Conductor cross-section of 1 and 1.5 mm² are also available.

Electrical Data

AC resistance : 9.45	(Ohm/km)

ABHAR CABLE



IEC 60502-1 **Cu/PVC/Bd/Lsh/Bd/SWA/PVC**

Description:
Wire armoured control cable, lead sheathed with copper conductor & PVC insulation.
For controlling, operating and signalling.

Number of Cores & Cross Section mm²	Insulation Thickness PH mm	Lead Thickness mm	Diameter of Armour mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
5 x2.5 RM	0.8	1.2	1.25	1.8	23.3	1498
7 x2.5 RM	0.8	1.2	1.6	1.8	25.3	1787
8 x2.5 RM	0.8	1.2	1.6	1.8	27.0	1971
10 x2.5 RM	0.8	1.2	1.6	1.8	29.0	2223
12 x2.5 RM	0.8	1.2	1.6	1.8	29.9	2346
16 x2.5 RM	0.8	1.2	2.0	1.9	33.0	2902
18 x2.5 RM	0.8	1.2	2.0	1.9	34.1	3060
20 x2.5 RM	0.8	1.3	2.0	2.0	35.7	3381
24 x2.5 RM	0.8	1.3	2.0	2.1	38.0	3810
30 x2.5 RM	0.8	1.4	2.0	2.1	40.4	4259
40 x2.5 RM	0.8	1.5	2.0	2.2	44.7	5138
61 x2.5 RM	0.8	1.6	2.5	2.5	53.5	7314

1-Solid or Stranded Circular Conductor 2-PVC Insulation (Sequentially numbered for identification) 3-Extruded PVC Bedding 4-Lead Sheath 5-Extruded PVC Bedding 6-Galvanized Steel Wire Armour 7-PVC Sheathing.

Maximum conductor temperature: 70°C
Conductor cross-section of 1 and 1.5 mm² are also available.

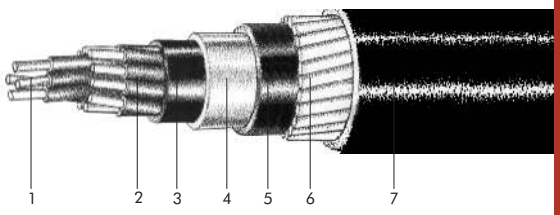
Electrical Data

AC resistance : 8.87	(Ohm/km)

ABHAR CABLE

Cu/XLPE/Bd/Lsh/Bd/SWA/PVC IEC 60502-1

Description:
Wire armoured control cable, lead sheathed with copper conductor & XLPE insulation.
For controlling, operating and signalling.



Number of Cores & Cross Section mm²	Insulation Thickness PH mm	Lead Thickness mm	Diameter of Armour mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
5 x2.5 RM	0.7	1.2	1.25	1.8	22.8	1439
7 x2.5 RM	0.7	1.2	1.25	1.8	24.0	1566
8 x2.5 RM	0.7	1.2	1.6	1.8	26.3	1885
10 x2.5 RM	0.7	1.2	1.6	1.8	28.2	2107
12 x2.5 RM	0.7	1.2	1.6	1.8	28.8	2217
16 x2.5 RM	0.7	1.2	2.0	1.8	31.7	2719
20 x2.5 RM	0.7	1.2	2.0	1.9	34.3	3091
24 x2.5 RM	0.7	1.3	2.0	2.0	37.3	3577
40 x2.5 RM	0.7	1.4	2.0	2.2	42.8	4706
61 x2.5 RM	0.7	1.6	2.5	2.4	51.5	6846

1-Solid or Stranded Circular Conductor 2-XLPE Insulation (Sequentially numbered for identification) 3-Extruded PVC Bedding 4-Lead Sheath 5-Extruded PVC Bedding 6-Galvanized Steel Wire Armour 7-PVC Sheathing.

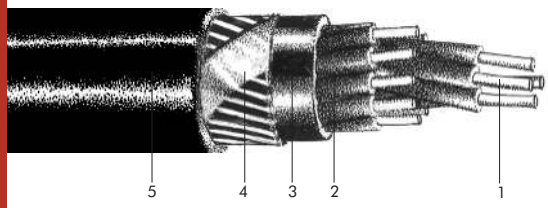
Maximum conductor temperature: 90°C

Conductor cross-section of 1 and 1.5 mm² are also available.

Electrical Data

AC resistance : 9.45	(Ohm/km)

ABHAR CABLE



IEC 60502-1 **Cu/PVC/Bd/CWS/PVC**

Description:
Screened control cable, with copper conductor & PVC insulation.
For controlling, operating and signalling.

Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
5 x1.5 / 2.5 RE	0.8	1.8	15.7	313
7 x1.5 / 2.5 RE	0.8	1.8	16.7	350
8 x1.5 / 2.5 RE	0.8	1.8	18.1	392
10 x1.5 / 2.5 RE	0.8	1.8	19.8	457
12 x1.5 / 2.5 RE	0.8	1.8	20.3	505
16 x1.5 / 4 RE	0.8	1.8	21.9	612
18 x1.5 / 4 RE	0.8	1.8	22.9	669
20 x1.5 / 6 RE	0.8	1.8	23.9	737
24 x1.5 / 6 RE	0.8	1.8	25.9	846
30 x1.5 / 6 RE	0.8	1.8	27.1	986
40 x1.5 / 10 RE	0.8	1.8	30.1	1267
61 x1.5 / 10 RE	0.8	2.0	36.2	1834

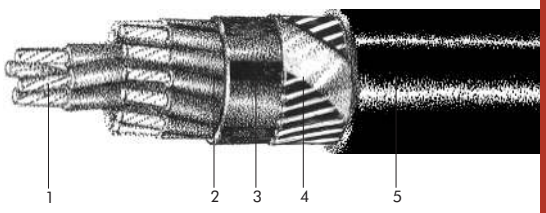
1-Solid or Stranded Circular Conductor 2-PVC Insulation (Sequentially numbered for identification) 3-Extruded PVC Bedding 4-Copper Wire Screen 5-PVC Sheathing.
Maximum conductor temperature: 70°C
Conductor cross-section of 1 and 2.5 mm² are also available.

Electrical Data

AC resistance : 14.48	(Ohm/km)

Cu/XLPE/Bd/CWS/PVC IEC 60502-1

Description:
Screened control cable, with copper conductor & XLPE insulation.
For controlling, operating and signalling.



Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
5 x2.5 / 2.5 RM	0.7	1.8	17.1	382
7 x2.5 / 2.5 RM	0.7	1.8	18.2	429
8 x2.5 / 4 RM	0.7	1.8	19.9	481
10 x2.5 / 4 RM	0.7	1.8	21.8	567
12 x2.5 / 4 RM	0.7	1.8	22.4	632
16 x2.5 / 6 RM	0.7	1.8	24.3	786
18 x2.5 / 6 RM	0.7	1.8	25.4	858
20 x2.5 / 10 RM	0.7	1.8	26.6	967
24 x2.5 / 10 RM	0.7	1.8	28.9	1112
30 x2.5 / 10 RM	0.7	1.8	30.5	1302
40 x2.5 / 10 RM	0.7	1.9	34.2	1648
61 x2.5 / 10 RM	0.7	2.1	40.9	2401

1-Stranded Circular or Solid Conductor 2-XLPE Insulation (Sequentially numbered for identification) 3-Extruded PVC Bedding 4-Copper Wire Screen 5-PVC Sheathing.

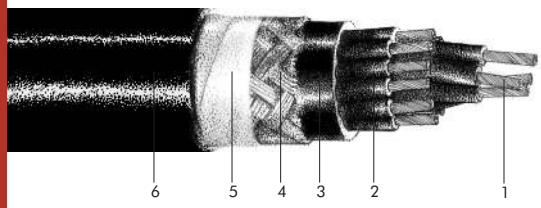
Maximum conductor temperature: 90°C

Conductor cross-section of 1 and 1.5 mm² are also available.

Electrical Data

AC resistance :	9.45	(Ohm/km)

ABHAR CABLE



IEC 60502-1 **Cu/PVC/Bd/CuB/Pet/PVC**

Description:
Control cable with braided screen, copper conductor & PVC insulation.
For controlling, operating and signalling.

Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
5 x2.5 RM	0.8	1.8	17.3	437
7 x2.5 RM	0.8	1.8	18.5	495
8 x2.5 RM	0.8	1.8	20.3	557
10 x2.5 RM	0.8	1.8	22.6	683
12 x2.5 RM	0.8	1.8	23.3	767
16 x2.5 RM	0.8	1.8	25.3	934
18 x2.5 RM	0.8	1.8	26.4	1013
20 x2.5 RM	0.8	1.8	27.6	1110
24 x2.5 RM	0.8	1.8	30.3	1289
30 x2.5 RM	0.8	1.8	31.8	1503
40 x2.5 RM	0.8	1.9	35.6	1920
61 x2.5 RM	0.8	2.1	42.9	2848

1-Stranded Circular or Solid Conductor 2-PVC Insulation (Sequentially numbered for identification) 3-Extruded PVC Bedding 4-Copper Braided Screen 5-Polyester Tape 6-PVC Sheathing.

Maximum conductor temperature: 70°C
Conductor cross-section of 1 and 1.5 mm² are also available.

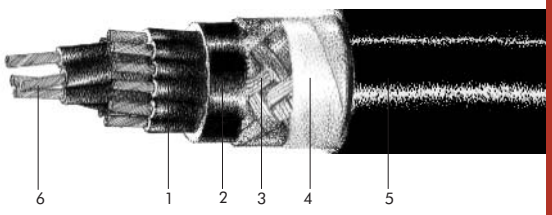
Electrical Data

AC resistance : 8.87	(Ohm/km)

ABHAR CABLE

Cu/XLPE/Bd/CuB/Pet/PVC IEC 60502-1

Description:
Control cable with braided screen, copper conductor & XLPE insulation.
For controlling, operating and signalling.



Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
5 x2.5 RM	0.7	1.8	16.8	412
7 x2.5 RM	0.7	1.8	17.9	456
8 x2.5 RM	0.7	1.8	19.6	520
10 x2.5 RM	0.7	1.8	21.5	610
12 x2.5 RM	0.7	1.8	22.1	675
16 x2.5 RM	0.7	1.8	24.3	853
18 x2.5 RM	0.7	1.8	25.4	935
20 x2.5 RM	0.7	1.8	26.6	1009
24 x2.5 RM	0.7	1.8	28.9	1170
30 x2.5 RM	0.7	1.8	30.5	1376
40 x2.5 RM	0.7	1.9	34.2	1739
61 x2.5 RM	0.7	2.1	41.1	2574

1-Stranded Circular or Solid Conductor 2-XLPE Insulation (Sequentially numbered for identification) 3-Extruded PVC Bedding 4-Copper Braided Screen

5-Polyester Tape 6-PVC Sheathing.

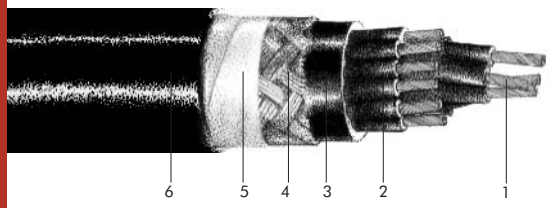
Maximum conductor temperature: 90°C

Conductor cross-section of 1 and 1.5 mm² are also available.

Electrical Data

AC resistance : 9.45	(Ohm/km)

ABHAR CABLE



IEC 60502-1 **TiCu/PVC/Bd/TCB/Pet/PVC**

Description:
Control cable with tinned copper braided screen, tinned copper conductor & PVC insulation. For controlling, operating and signalling.

Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
5 x2.5 RM	0.8	1.8	17.3	446
7 x2.5 RM	0.8	1.8	18.5	505
8 x2.5 RM	0.8	1.8	20.3	569
10 x2.5 RM	0.8	1.8	22.6	697
12 x2.5 RM	0.8	1.8	23.3	783
16 x2.5 RM	0.8	1.8	25.3	953
18 x2.5 RM	0.8	1.8	26.4	1034
20 x2.5 RM	0.8	1.8	27.6	1133
24 x2.5 RM	0.8	1.8	30.3	1316
30 x2.5 RM	0.8	1.8	31.8	1533
40 x2.5 RM	0.8	1.9	35.6	1960
61 x2.5 RM	0.8	2.1	42.9	2904

1-Stranded Circular or Solid Conductor 2-PVC Insulation (Sequentially numbered for identification) 3-Extruded PVC Bedding 4-Tinned Copper Braided Screen

5-Polyester Tape 6-PVC Sheathing.

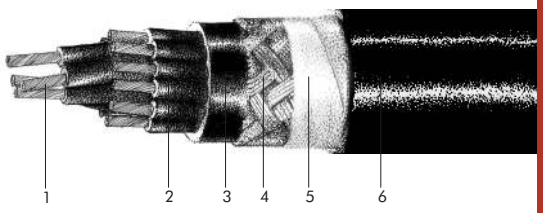
Maximum conductor temperature: 70°C
Conductor cross-section of 1 and 1.5 mm² are also available.

Electrical Data

AC resistance	: 8.87	(Ohm/km)

TiCu/XLPE/Bd/TCB/Pet/PVC IEC 60502-1

Description:
Control cable with tinned copper braided screen, tinned copper conductor & XLPE insulation.
For controlling , operating and signalling.



Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
5 x2.5 RM	0.7	1.8	16.8	420
7 x2.5 RM	0.7	1.8	17.9	465
8 x2.5 RM	0.7	1.8	19.6	531
10 x2.5 RM	0.7	1.8	21.5	623
12 x2.5 RM	0.7	1.8	22.1	690
16 x2.5 RM	0.7	1.8	24.3	871
18 x2.5 RM	0.7	1.8	25.4	956
20 x2.5 RM	0.7	1.8	26.6	1031
24 x2.5 RM	0.7	1.8	28.9	1196
30 x2.5 RM	0.7	1.8	20.5	1407
40 x2.5 RM	0.7	1.9	34.2	1778
61 x2.5 RM	0.7	2.1	41.1	2629

1-Stranded Circular or Solid Conductor 2-XLPE Insulation (Sequentially numbered for identification) 3-Extruded PVC Bedding 4-Tinned Copper Braided Scree

5-Polyester Tape 6-PVC Sheathing.

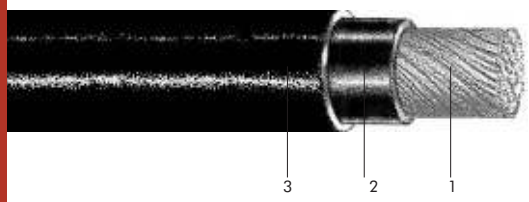
Maximum conductor temperature: 90°C

Conductor cross-section of 1 and 1.5 mm² are also available.

Electrical Data

AC resistance	: 9.45	(Ohm/km)

ABHAR CABLE



IEC 60502-1 **Cu/PVC/PVC**

Description:
Single core flexible cable with copper conductor & PVC insulation.

Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
1 x 1.5 RF	0.8	1.4	6.3	57
1 x 2.5 RF	0.8	1.4	6.8	72
1 x 4 RF	1.0	1.4	7.7	98
1 x 6 RF	1.0	1.4	8.3	124
1 x 10 RF	1.0	1.4	9.3	174
1 x 16 RF	1.0	1.4	10.8	245
1 x 25 RF	1.2	1.4	12.5	353
1 x 35 RF	1.2	1.4	13.8	460
1 x 50 RF	1.4	1.4	15.8	633
1 x 70 RF	1.4	1.4	17.9	862
1 x 95 RF	1.6	1.5	20.5	1122
1 x 120 RF	1.6	1.5	22.3	1392
1 x 150 RF	1.8	1.6	24.7	1730
1 x 185 RF	2.0	1.7	27.1	2099

1-Fine Stranded Conductor 2-PVC Insulation 3-PVC Sheathing
Maximum conductor temperature: 70°C
TPE (NBR/PVC) Insulation and Sheathing are also available.
Braided Shield and/or Braided Armour is also available.

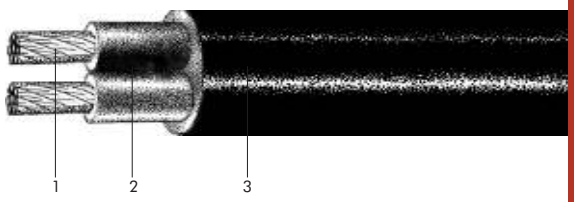
Electrical Data

Number of cores	AC resistance (Ohm/km)		REACTANCE (Ohm/km)		Voltage Drop (m.V/m)	
	Trefoil	Flat	Trefoil	Flat	Trefoil	Flat
1 x 1.5 RF	15.91	15.91	0.13	0.301	22.18	22.36
1 x 2,5 RF	9.55	9.55	0.119	0.286	13.36	13.53
1 x 4 RF	5.92	5.92	0.112	0.272	8.32	8.49
1 x 6 RF	3.95	3.95	0.104	0.259	5.58	5.74
1 x 10 RF	2.29	2.29	0.094	0.243	3.27	3.43
1 x 16 RF	1.45	1.45	0.105	0.246	2.12	2.26
1 x 25 RF	0.933	0.933	0.101	0.234	1.40	1.54
1 x 35 RF	0.663	0.663	0.097	0.224	1.02	1.15
1 x 50 RF	0.462	0.462	0.094	0.215	0.74	0.86
1 x 70 RF	0.326	0.326	0.087	0.201	0.54	0.66
1 x 95 FR	0.247	0.247	0.087	0.195	0.43	0.54
1 x 120 RF	0.194	0.193	0.084	0.188	0.36	0.46
1 x 150 RF	0.156	0.155	0.084	0.183	0.30	0.40
1 x 185 RF	0.1289	0.1275	0.083	0.177	0.26	0.36

ABHAR CABLE

Cu/PVC/PVC **IEC 60502-1**

Description:
2 core flexible cable with copper conductor & PVC insulation.



Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
2 x 1.5 RF	0.8	1.8	12.6	135
2 x 2.5 RF	0.8	1.8	13.6	171
2 x 4 RF	1.0	1.8	15.4	244
2 x 6 RF	1.0	1.8	16.6	310
2 x 10 RF	1.0	1.8	18.6	467
2 x 16 RF	1.0	1.8	21.8	623
2 x 25 RF	1.2	1.8	25.2	917
2 x 35 RF	1.2	1.8	27.8	1190
2 x 50 RF	1.4	1.8	32.1	1678
2 x 70 RF	1.4	1.9	36.6	2257
2 x 95 RF	1.6	2.0	41.7	2930
2 x 120 RF	1.6	2.1	45.5	3757
2 x 150 RF	1.8	2.2	50.2	4624
2 x 185 RF	2.0	2.4	55.6	5513

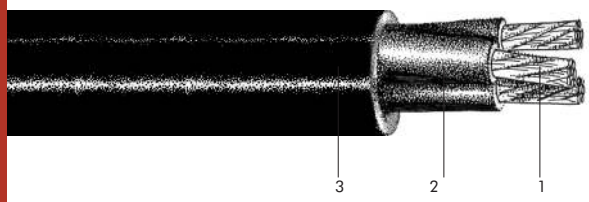
1-Fine Stranded Conductor 2-PVC Insulation 3-PVC Sheathing

Maximum conductor temperature: 70°C
TPE (NBR/PVC) Insulation and Sheathing are also available.
Braided Shield and/or Braided Armour is also available.

Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (m.V/m)
2 x 1.5 RF	15.91	0.087	25.56
2 x 2.5 RF	9.55	0.081	15.38
2 x 4 RF	5.92	0.079	9.57
2 x 6 RF	3.95	0.074	6.41
2 x 10 RF	2.29	0.069	3.75
2 x 16 RF	1.45	0.084	2.42
2 x 25 RF	0.933	0.083	1.59
2 x 35 RF	0.663	0.081	1.16
2 x 50 RF	0.462	0.08	0.84
2 x 70 RF	0.326	0.075	0.61
2 x 95 RF	0.247	0.075	0.49
2 x 120 RF	0.194	0.074	0.40
2 x 150 RF	0.156	0.074	0.34
2 x 185 RF	0.1287	0.073	0.29

ABHAR CABLE



IEC 60502-1 **Cu/PVC/PVC**

Description:
3 core flexible cable with copper conductor & PVC insulation.

Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3 x 1.5 RF	0.8	1.8	13.1	231
3 x 2.5 RF	0.8	1.8	14.2	287
3 x 4 RF	1.0	1.8	16.1	387
3 x 6 RF	1.0	1.8	17.4	480
3 x 10 RF	1.0	1.8	19.7	663
3 x 16 RF	1.0	1.8	23.0	933
3 x 25 RF	1.2	1.8	26.7	1331
3 x 35 RF	1.2	1.8	29.7	1712
3 x 50 RF	1.4	1.8	34.1	2346
3 x 70 RF	1.4	1.9	39.4	3223
3 x 95 RF	1.6	2.1	44.5	4177
3 x 120 RF	1.6	2.2	48.7	5161
3 x 150 RF	1.8	2.3	54.2	6431
3 x 185 RF	2.0	2.5	59.7	7772

1-Fine Stranded Conductor 2-PVC Insulation 3-PVC Sheathing

Maximum conductor temperature: 70°C
TPE (NBR/PVC) Insulation and Sheathing are also available.
Braided Shield and/or Braided Armour is also available.

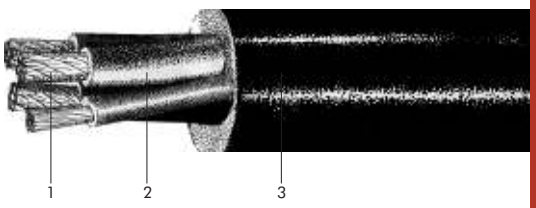
Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
3 x 1, 5 RF	15.91	0.087	22.14
3 x 2,5 RF	9.55	0.081	13.32
3 x 4 RF	5.92	0.079	8.28
3 x 6 RF	3.95	0.074	5.55
3 x 10 RF	2.29	0.069	3.24
3 x 16 RF	1.45	0.084	2.10
3 x 25 RF	0.934	0.083	1.38
3 x 35 RF	0.663	0.081	1.00
3 x 50 RF	0.463	0.08	0.72
3 x 70 RF	0.326	0.075	0.53
3 x 95 RF	0.248	0.075	0.42
3 x 120 RF	0.194	0.074	0.35
3 x 150 RF	0.156	0.074	0.29
3 x 185 RF	0.1294	0.073	0.26

ABHAR CABLE

Cu/PVC/PVC **IEC 60502-1**

Description:
3½ core flexible cable with copper conductor & PVC insulation.



Number of Cores & Cross Section mm²	Insulation Thickness PH mm	Insulation Thickness N mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3 x 25 + 16 RF	1.2	1.0	1.8	29.1	1540
3 x 35 + 16 RF	1.2	1.0	1.8	32.5	1930
3 x 50 + 25 RF	1.4	1.2	1.9	38.2	2727
3 x 70 + 35 RF	1.4	1.2	2.1	43.6	3695
3 x 95 + 50 RF	1.6	1.4	2.2	49.2	4804
3 x 120 + 70 RF	1.6	1.4	2.3	54.3	6077
3 x 150 + 70 RF	1.8	1.4	2.5	60.5	7350
3 x 185 + 95 RF	2.0	1.6	2.7	66.8	9028

1-Fine Stranded Conductor 2-PVC Insulation 3-PVC Sheathing

Maximum conductor temperature: 70°C

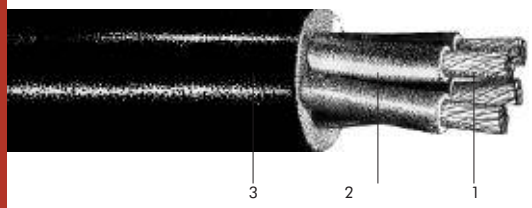
TPE (NBR/PVC) Insulation and Sheathing are also available.

Braided Shield and/or Braided Armour is also available.

Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
3 x 25 + 16 RF	0.934	0.09	1.39
3 x 35 + 16 RF	0.663	0.088	1.01
3 x 50 + 25 RF	0.462	0.087	0.73
3 x 70 + 35 RF	0.326	0.082	0.54
3 x 95 + 50 RF	0.248	0.082	0.43
3 x 120 + 70 RF	0.194	0.081	0.35
3 x 150 + 70 RF	0.156	0.081	0.30
3 x 185 + 95 RF	0.129	0.08	0.26

ABHAR CABLE



IEC 60502-1 **Cu/PVC/PVC**

Description:
4 core flexible cable with copper conductor & PVC insulation.

Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
4 x 1.5 RF	0.8	1.8	13.9	264
4 x 2.5 RF	0.8	1.8	15.1	332
4 x 4 RF	1.0	1.8	17.3	457
4 x 6 RF	1.0	1.8	18.8	576
4 x 10 RF	1.0	1.8	21.3	803
4 x 16 RF	1.0	1.8	25.0	1139
4 x 25 RF	1.2	1.8	29.1	1637
4 x 35 RF	1.2	1.8	32.5	2124
4 x 50 RF	1.4	1.9	38.2	2985
4 x 70 RF	1.4	2.1	43.6	4070
4 x 95 RF	1.6	2.2	49.2	5255
4 x 120 RF	1.6	2.3	54.3	6570
4 x 150 RF	1.8	2.5	60.5	8154
4 x 185 RF	2.0	2.7	66.8	9934

1-Fine Stranded Conductor 2-PVC Insulation 3-PVC Sheathing

Maximum conductor temperature: 70°C

TPE (NBR/PVC) Insulation and Sheathing are also available.

Cable could be supplied in Tinned Copper Conductor.

Braided Shield and/or Braided Armour is also available.

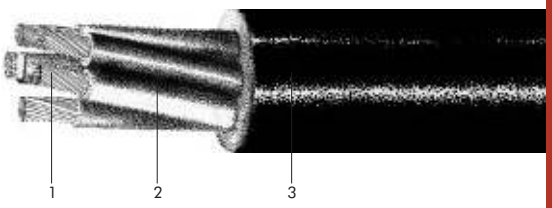
Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
4 x 1.5 RF	15.91	0.094	22.14
4 x 2.5 RF	9.55	0.088	13.32
4 x 4 RF	5.92	0.087	8.29
4 x 6 RF	3.95	0.082	5.56
4 x 10 RF	2.29	0.076	3.25
4 x 16 RF	1.45	0.092	2.10
4 x 25 RF	0.934	0.09	1.39
4 x 35 RF	0.663	0.088	1.01
4 x 50 RF	0.462	0.087	0.73
4 x 70 RF	0.326	0.082	0.54
4 x 95 RF	0.248	0.082	0.43
4 x 120 RF	0.194	0.081	0.35
4 x 150 RF	0.156	0.81	1.06
4 x 185 RF	0.129	0.08	0.26

ABHAR CABLE

Cu/PVC/PVC **IEC 60502-1**

Description:
5 core flexible cable with copper conductor & PVC insulation.



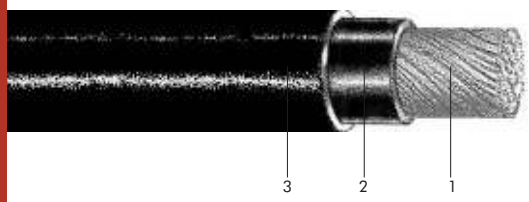
Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
5 x 1.5 RF	0.8	1.8	14.8	300
5 x 2.5 RF	0.8	1.8	16.2	383
5 x 4 RF	1.0	1.8	18.6	530
5 x 6 RF	1.0	1.8	20.3	670
5 x 10 RF	1.0	1.8	23.1	950
5 x 16 RF	1.0	1.8	27.2	1352
5 x 25 RF	1.2	1.8	32.1	1963
5 x 35 RF	1.2	1.9	35.9	2569

1-Fine Stranded Conductor 2-PVC Insulation 3-PVC Sheathing
Maximum conductor temperature: 70°C
TPE (NBR/PVC) Insulation and Sheathing are also available.
Cable could be supplied in Tinned Copper Conductor.
Braided Shield and/or Braided Armour is also available.

Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
5 x 1.5 RF	15.91	0.097	22.15
5 x 2.5 RF	9.55	0.091	13.33
5 x 4 RF	5.92	0.09	8.30
5 x 6 RF	3.95	0.084	5.56
5 x 10 RF	2.29	0.079	3.26
5 x 16 RF	1.45	0.094	2.11
5 x 25 RF	0.933	0.093	1.39
5 x 35 RF	0.663	0.091	1.01

ABHAR CABLE



IEC 60502-1 **Cu/EPR/EPR**

Description:
Single core flexible cable with copper conductor, EPR insulation & sheathing.

Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
1 x 1.5 RF	1.0	1.4	6.7	61
1 x 2.5 RF	1.0	1.4	7.2	76
1 x 4 RF	1.0	1.4	7.7	96
1 x 6 RF	1.0	1.4	8.3	120
1 x 10 RF	1.0	1.4	9.3	170
1 x 16 RF	1.0	1.4	10.8	239
1 x 25 RF	1.2	1.4	12.5	344
1 x 35 RF	1.2	1.4	13.8	449
1 x 50 RF	1.4	1.4	15.8	617
1 x 70 RF	1.4	1.4	17.9	843
1 x 95 RF	1.6	1.5	20.5	1097
1 x 120 RF	1.6	1.5	22.3	1363
1 x 150 RF	1.8	1.6	24.7	1694
1 x 185 RF	2.0	1.7	27.1	2053

1-Fine Stranded Conductor 2-Ethylene Propylene Rubber (EPR) Insulation 3-EPR Sheathing

Maximum conductor temperature: 90°C

TPE (NBR/PVC) Insulation and Sheathing are also available.

Cable could be supplied in and Tinned Copper Conductor.

Braided Shield and/or Braided Armour is also available.

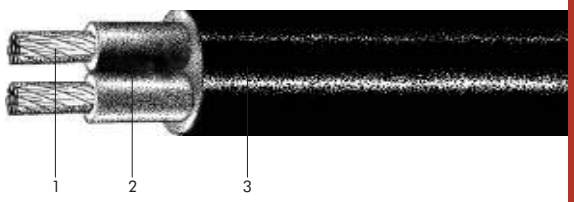
Electrical Data

Number of cores	AC resistance (Ohm/km)		REACTANCE (Ohm/km)		Voltage Drop (mV.A/m)	
	Trefoil	Flat	Trefoil	Flat	Trefoil	Flat
1 x 1.5 RF	16.96	16.96	0.134	0.301	23.64	23.81
1 x 2.5 RF	10.18	10.18	0.122	0.286	14.23	14.40
1 x 4 RF	6.31	6.31	0.112	0.272	8.86	9.03
1 x 6 RF	4.21	4.21	0.104	0.259	5.94	6.10
1 x 10 RF	2.44	2.44	0.094	0.243	3.48	3.63
1 x 16 RF	1.54	1.54	0.105	0.246	2.24	2.39
1 x 25 RF	0.995	0.995	0.101	0.234	1.48	1.62
1 x 35 RF	0.707	0.707	0.097	0.224	1.08	1.21
1 x 50 RF	0.094	0.215	0.094	0.0215	0.23	0.32
1 x 70 RF	0.348	0.347	0.087	0.201	0.57	0.69
1 x 95 RF	0.264	0.263	0.087	0.195	0.46	0.57
1 x 120 RF	0.207	0.206	0.084	0.188	0.37	0.48
1 x 150 RF	0.166	0.165	0.084	0.183	0.32	0.42
1 x 185 RF	0.1371	0.1358	0.083	0.177	0.28	0.37

ABHAR CABLE

Cu/EPR/EPR **IEC 60502-1**

Description:
2 core flexible cable with copper conductor, EPR insulation & sheathing.



Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
2 x 1.5 RF	1.0	1.8	13.4	232
2 x 2.5 RF	1.0	1.8	14.4	278
2 x 4 RF	1.0	1.8	15.4	335
2 x 6 RF	1.0	1.8	16.6	408
2 x 10 RF	1.0	1.8	18.6	549
2 x 16 RF	1.0	1.8	21.8	766
2 x 25 RF	1.2	1.8	25.2	1072
2 x 35 RF	1.2	1.8	27.8	1365
2 x 50 RF	1.4	1.8	32.1	1853
2 x 70 RF	1.4	1.9	36.6	2498
2 x 95 RF	1.6	2.0	41.7	3260
2 x 120 RF	1.6	2.1	45.5	4009
2 x 150 RF	1.8	2.2	50.2	4928
2 x 185 RF	2.0	2.4	55.6	6021

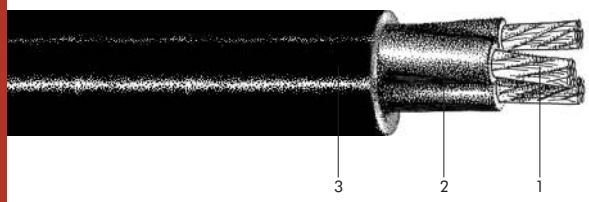
1-Fine Stranded Conductor 2-Ethylene Propylene Rubber (EPR) Insulation 3-EPR Sheathing

Maximum conductor temperature: 90°C
TPE (NBR/PVC) Insulation and Sheathing are also available.
Cable could be supplied in Tinned Copper Conductor.
Braided Shield and/or Braided Armour is also available.

Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
2 x 1.5 RF	16.96	0.095	27.25
2 x 2.5 RF	10.18	0.087	16.39
2 x 4 RF	6.31	0.079	10.19
2 x 6 RF	4.21	0.074	6.82
2 x 10 RF	2.44	0.069	3.99
2 x 16 RF	1.54	0.084	2.56
2 x 25 RF	0.995	0.083	1.69
2 x 35 RF	0.707	0.081	1.23
2 x 50 RF	0.493	0.08	0.88
2 x 70 RF	0.348	0.075	0.65
2 x 95 RF	0.264	0.075	0.51
2 x 120 RF	0.206	0.074	0.42
2 x 150 RF	0.166	0.074	0.35
2 x 185 RF	0.1369	0.073	0.31

ABHAR CABLE



IEC 60502-1 **Cu/EPR/EPR**

Description:
3 core flexible cable with copper conductor, EPR insulation & sheathing.

Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3 x 1.5 RF	1.0	1.8	14.0	257
3 x 2.5 RF	1.0	1.8	15.0	311
3 x 4 RF	1.0	1.8	16.1	383
3 x 6 RF	1.0	1.8	17.4	476
3 x 10 RF	1.0	1.8	19.7	657
3 x 16 RF	1.0	1.8	23.0	925
3 x 25 RF	1.2	1.8	26.7	1316
3 x 35 RF	1.2	1.8	29.7	1695
3 x 50 RF	1.4	1.8	34.1	2318
3 x 70 RF	1.4	1.9	39.4	1395
3 x 95 RF	1.6	2.1	44.5	4138
3 x 120 RF	1.6	2.2	48.7	5120
3 x 150 RF	1.8	2.3	54.2	6378
3 x 185 RF	2.0	2.5	59.7	7703

1-Fine Stranded Conductor 2-Ethylene Propylene Rubber (EPR) Insulation 3-EPR Sheathing

Maximum conductor temperature: 90°C

TPE (NBR/PVC) Insulation and Sheathing are also available.

Cable could be supplied in Tinned Copper Conductor.

Braided Shield and/or Braided Armour is also available.

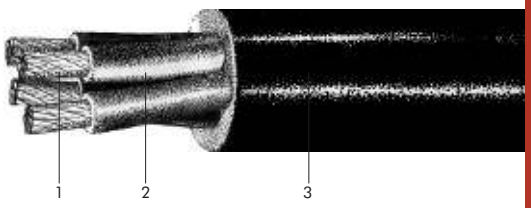
Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop mv.A/m
3 x 1.5 RF	16.96	0.095	23.60
3 x 2.5 RF	10.18	0.087	14.20
3 x 4 RF	6.31	0.079	8.83
3 x 6 RF	4.21	0.074	5.91
3 x 10 RF	2.44	0.069	3.45
3 x 16 RF	1.54	0.084	2.22
3 x 25 RF	0.995	0.083	1.46
3 x 35 RF	0.707	0.081	1.06
3 x 50 RF	0.493	0.08	0.77
3 x 70 RF	0.348	0.075	0.56
3 x 95 RF	0.264	0.075	0.44
3 x 120 RF	0.207	0.074	0.36
3 x 150 RF	0.166	0.074	0.31
3 x 185 RF	0.1376	0.073	0.27

ABHAR CABLE

Cu/EPR/EPR **IEC 60502-1**

Description:
4 core flexible cable with copper conductor, EPR insulation & sheathing.



Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
4 x 1.5 RF	1.0	1.8	14.9	292
4 x 2.5 RF	1.0	1.8	16.1	361
4 x 4 RF	1.0	1.8	17.3	450
4 x 6 RF	1.0	1.8	18.8	567
4 x 10 RF	1.0	1.8	21.3	791
4 x 16 RF	1.0	1.8	25.0	1124
4 x 25 RF	1.2	1.8	29.1	1610
4 x 35 RF	1.2	1.8	32.5	2094
4 x 50 RF	1.4	1.9	38.2	2941
4 x 70 RF	1.4	2.1	43.6	4022
4 x 95 RF	1.6	2.2	49.2	5187
4 x 120 RF	1.6	2.3	54.3	6501
4 x 150 RF	1.8	2.5	60.5	8063
4 x 185 RF	2.0	2.7	66.8	9821

1-Fine Stranded Conductor 2-Ethylene Propylene Rubber (EPR) Insulation 3-EPR Sheathing

Maximum conductor temperature: 90°C

TPE (NBR/PVC) Insulation and Sheathing are also available.

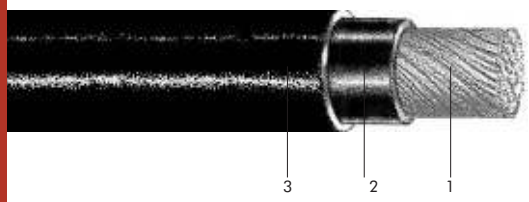
Cable could be supplied in Tinned Copper Conductor.

Braided Shield and/or Braided Armour is also available.

Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
4 x 1.5 RF	16.96	0.102	23.61
4 x 2.5 RF	10.18	0.094	14.20
4 x 4 RF	6.31	0.087	8.83
4 x 6 RF	4.21	0.082	5.92
4 x 10 RF	2.44	0.076	3.46
4 x 16 RF	1.54	0.092	2.23
4 x 25 RF	0.995	0.09	1.47
4 x 35 RF	0.707	0.088	1.07
4 x 50 RF	0.493	0.087	0.77
4 x 70 RF	0.348	0.082	0.57
4 x 95 RF	0.264	0.082	0.45
4 x 120 RF	0.207	0.081	0.37
4 x 150 RF	0.166	0.081	0.31
4 x 185 RF	0.1372	0.08	0.27

ABHAR CABLE



IEC 60502-1 **TiCu/EPR/EPR**

Description:
Single core flexible cable with tinned copper conductor, EPR insulation & sheathing.

Number of Cores & Cross Section mm^2	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
1 x 1.5 RF	1.0	1.4	6.7	62
1 x 2.5 RF	1.0	1.4	7.2	77
1 x 4 RF	1.0	1.4	7.7	97
1 x 6 RF	1.0	1.4	8.3	122
1 x 10 RF	1.0	1.4	9.3	172
1 x 16 RF	1.0	1.4	10.8	243
1 x 25 RF	1.2	1.4	12.5	350
1 x 35 RF	1.2	1.4	13.8	457
1 x 50 RF	1.4	1.4	15.8	628
1 x 70 RF	1.4	1.4	17.9	868
1 x 95 RF	1.6	1.5	20.5	1130
1 x 120 RF	1.6	1.5	22.3	1406
1 x 150 RF	1.8	1.6	24.7	1747
1 x 185 RF	2.0	1.7	27.1	2118

1-Fine Stranded Conductor 2-Ethylene Propylene Rubber (EPR) Insulation 3-EPR Sheathing

Maximum conductor temperature: 90°C

TPE (NBR/PVC) Insulation and Sheathing are also available.

Braided Shield and/or Braided Armour is also available.

Electrical Data

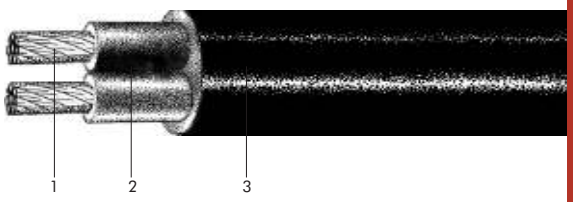
Number of cores	AC resistance (Ohm/km)		REACTANCE (Ohm/km)		Voltage Drop (mv.A/m)	
	Trefoil	Flat	Trefoil	Flat	Trefoil	Flat
1 x 1.5 RF	17.47	17.47	0.134	0.301	24.35	24.52
1 x 2.5 RF	10.47	10.47	0.122	0.286	14.63	14.80
1 x 4 RF	6.49	6.49	0.112	0.272	9.11	9.28
1 x 6 RF	4.32	4.32	0.104	0.259	6.09	6.25
1 x 10 RF	2.49	2.49	0.094	0.243	3.55	3.70
1 x 16 RF	1.58	1.58	0.105	0.246	2.30	2.44
1 x 25 RF	1.014	1.014	0.101	0.234	1.51	1.65
1 x 35 RF	0.721	0.721	0.097	0.224	1.10	1.23
1 x 50 RF	0.502	0.501	0.094	0.215	0.79	0.92
1 x 70 RF	0.354	0.353	0.087	0.201	0.58	0.70
1 x 95 RF	0.269	0.268	0.087	0.195	0.46	0.57
1 x 120 RF	0.21	0.21	0.084	0.188	0.38	0.49
1 x 150 RF	0.17	0.169	0.084	0.183	0.32	0.42
1 x 185 RF	0.1396	0.1384	0.083	0.177	0.28	0.38

ABHAR CABLE

TiCu/EPR/EPR

IEC 60502-1

Description:
2 core flexible cable with tinned copper conductor, EPR insulation & sheathing.



Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
2 x 1.5 RF	1.0	1.8	13.4	233
2 x 2.5 RF	1.0	1.8	14.4	279
2 x 4 RF	1.0	1.8	15.4	337
2 x 6 RF	1.0	1.8	16.6	411
2 x 10 RF	1.0	1.8	18.6	553
2 x 16 RF	1.0	1.8	21.8	773
2 x 25 RF	1.2	1.8	25.2	1083
2 x 35 RF	1.2	1.8	27.8	1380
2 x 50 RF	1.4	1.8	32.1	1875
2 x 70 RF	1.4	1.9	36.6	2548
2 x 95 RF	1.6	2.0	41.7	3327
2 x 120 RF	1.6	2.1	45.5	4095
2 x 150 RF	1.8	2.2	50.2	5035
2 x 185 RF	2.0	2.4	55.6	6151

1-Fine Stranded Conductor 2-Ethylene Propylene Rubber (EPR) Insulation 3-EPR Sheathing

Maximum conductor temperature: 90°C

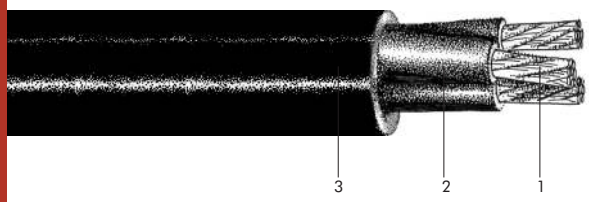
TPE (NBR/PVC) Insulation and Sheathing are also available.

Braided Shield and/or Braided Armour is also available.

Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
2 x 1.5 RF	17.47	0.95	29.09
2 x 2.5 RF	10.47	0.087	16.86
2 x 4 RF	6.49	0.079	10.48
2 x 6 RF	4.32	0.074	7.00
2 x 10 RF	2.49	0.069	4.07
2 x 16 RF	1.58	0.084	2.63
2 x 25 RF	1.014	0.083	1.72
2 x 35 RF	0.721	0.081	1.25
2 x 50 RF	0.502	0.08	0.90
2 x 70 RF	0.354	0.075	0.66
2 x 95 RF	0.269	0.075	0.52
2 x 120 RF	0.21	0.074	0.42
2 x 150 RF	0.17	0.074	0.36
2 x 185 RF	0.1395	0.073	0.31

ABHAR CABLE



IEC 60502-1 **TiCu/EPR/EPR**

Description:
3 core flexible cable with tinned copper conductor, EPR insulation & sheathing.

Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3 x 1.5 RF	1.0	1.8	14.0	259
3 x 2.5 RF	1.0	1.8	15.0	313
3 x 4 RF	1.0	1.8	16.1	387
3 x 6 RF	1.0	1.8	17.4	481
3 x 10 RF	1.0	1.8	19.7	664
3 x 16 RF	1.0	1.8	23.0	936
3 x 25 RF	1.2	1.8	26.7	1332
3 x 35 RF	1.2	1.8	29.7	1718
3 x 50 RF	1.4	1.8	34.1	2351
3 x 70 RF	1.4	1.9	39.4	3272
3 x 95 RF	1.6	2.1	44.5	4238
3 x 120 RF	1.6	2.2	48.7	5248
3 x 150 RF	1.8	2.3	54.2	6538
3 x 185 RF	2.0	2.5	59.7	7898

1-Fine Stranded Conductor 2-Ethylene Propylene Rubber (EPR) Insulation 3-EPR Sheathing
Maximum conductor temperature: 90°C
TPE (NBR/PVC) Insulation and Sheathing are also available.
Braided Shield and/or Braided Armour is also available.

Electrical Data

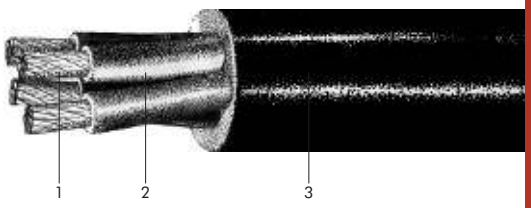
Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
3 x 1.5 RF	17.74	0.095	24.68
3 x 2.5 RF	10.47	0.087	14.60
3 x 4 RF	6.49	0.079	9.07
3 x 6 RF	4.32	0.074	6.06
3 x 10 RF	2.49	0.069	3.52
3 x 16 RF	1.58	0.084	2.28
3 x 25 RF	1.014	0.083	1.49
3 x 35 RF	0.721	0.081	1.08
3 x 50 RF	0.502	0.08	0.78
3 x 70 RF	0.354	0.075	0.57
3 x 95 RF	0.269	0.075	0.45
3 x 120 RF	0.211	0.074	0.37
3 x 150 RF	0.17	0.074	0.31
3 x 185 RF	0.1401	0.073	0.27

ABHAR CABLE

TiCu/EPR/EPR

IEC 60502-1

Description:
4 core flexible cable with tinned copper conductor, EPR insulation & sheathing.



Number of Cores & Cross Section mm²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
4 x 1.5 RF	1.0	1.8	14.9	294
4 x 2.5 RF	1.0	1.8	16.1	364
4 x 4 RF	1.0	1.8	17.3	454
4 x 6 RF	1.0	1.8	18.8	574
4 x 10 RF	1.0	1.8	21.3	800
4 x 16 RF	1.0	1.8	25.0	1138
4 x 25 RF	1.2	1.8	29.1	1632
4 x 35 RF	1.2	1.8	32.5	2124
4 x 50 RF	1.4	1.9	38.2	2985
4 x 70 RF	1.4	2.1	43.6	4124
4 x 95 RF	1.6	2.2	49.2	5321
4 x 120 RF	1.6	2.3	54.3	6672
4 x 150 RF	1.8	2.5	60.5	8277
4 x 185 RF	2.0	2.7	66.8	10082

1-Fine Stranded Conductor 2-Ethylene Propylene Rubber (EPR) Insulation 3-EPR Sheathing

Maximum conductor temperature: 90°C

TPE (NBR/PVC) Insulation and Sheathing are also available.

Braided Shield and/or Braided Armour is also available.

Electrical Data

Number of cores	AC resistance (Ohm/km)	REACTANCE (Ohm/km)	Voltage Drop (mV.A/m)
4 x 1.5 RF	17.47	0.102	24.31
4 x 2.5 RF	10.47	0.094	14.60
4 x 4 RF	6.49	0.087	9.08
4 x 6 RF	4.32	0.082	6.07
4 x 10 RF	2.49	0.076	3.53
4 x 16 RF	1.58	0.092	2.28
4 x 25 RF	1.014	0.09	1.50
4 x 35 RF	0.721	0.88	1.91
4 x 50 RF	0.502	0.087	0.79
4 x 70 RF	0.354	0.082	0.58
4 x 95 RF	0.269	0.082	0.46
4 x 120 RF	0.21	0.081	0.38
4 x 150 RF	0.17	0.081	0.32
4 x 185 RF	0.1397	0.08	0.28

ABHAR CABLE

TECHNICAL DATA

ABHAR CABLE

IEC & AWC Abbriviations

Cu	**Copper**
Al	**Aluminium**
AA	**Aluminium Alloy**
TiCu	**Tinned Copper**
SiCu	**Silver Coated copper**
RM	**Stranded Circular**
SM	**Shaped Stranded**
SE	**Shaped Solid**
RE	**Solid Circular**
RF	**Flexible Circular**
RMS	**Stranded Segmental (Milliken)**
CTS	**Copper Tape Screen**
CWS	**Copper Wire Screen**
CuB	**Copper Wire Braided Screen**
ICTS	**Individual Copper Tape Screen**
ICWS	**Individual Copper Wire Screen**
ISCR	**Individual Screen Formed by Polyester + Tinned Drain Wire + Aluminium Backed Polyester + Polyester**
ISCRC	**Individual Screen Formed by Polyester + Tinned Drain Wire + Copper Backed Polyester + Polyester**
OSCR	**Overall Screen Formed by Polyester + Tinned Drain Wire + Aluminium Backed Polyester**
OSCRC	**Overall Screen Formed by Polyester + Tinned Drain Wire + Copper Backed Polyester**
TCB	**Tinned Copper Wire Braided Screen**
CW	**Communication Wire**
ATA	**Double Aluminium Tape Armour**
STA	**Double Galv. Steel Tape Armour**
AWA	**Aluminium Wire Armour**
AWAT	**Aluminium Wire Armour + Counter Herlix**
SWA	**Galv. Steel Wire Armour**
SWAT	**Galv. Steel Wire Armour + Counter Helix**
SSWA	**Stainless Steel Wire Armour**
DAWA	**Double Aluminum Wire Armour**
DSWA	**Double Galv. Steel Wire Armour**
TCWA	**Tinned Copper Wire Armour**
AWB	**Aluminium Wire Braided**
SWB	**Galv. Steel Wire Braided**
BWB	**Bronze Wire Braided**
SSWB	**Stainless Steel Wire Braided**
LSh	**Lead Sheath**
AlPE	**Aluminium Copolymer Coated**

ABHAR CABLE

Bd	**Bedding**
BT	**Brass tape**
BHT	**Bituminized Hessian Tape**
BPT	**Bitumen Coated Paper Tape**
BdT	**Bedding Tape (PVC or PE)**
BrT	**Bronze Tape**
MGT	**Mica Glass Tape**
PPT	**Polypropylene Tape**
SCT	**Semi Conductive Tape**
WBT	**Water Blocking Tape**
Pet	**Polyester Tape (Mylar)**
SCWBT	**Semi-Conductive Water Blocking Tape**
PPY	**Polypropylene Yarn**
WBY	**Water Blocking Yarn**
SCYF	**Semi-conductive Yarn Filler**
GC	**Graphite Coating**
GFB	**Glass Fiber Braided**
FPE	**Foamed Polyethylene (Cellular)**
TPU	**Thermoplastic Polyurethene**
SC	**Ext. Polymer Semi Conductive**
TPE	**Thermoplastic Elastomer**
PVC	**Polyvinylchloride**
XLPE	**Cross Linked Polyethylene**
SIR	**Silicone Rubber**
PE	**Polyethylene**
EVA	**Ethylene Vinyl Acetate**
XEVA	**Cross Linked EVA**
HDPE	**High Density Polyethylene**
HEPR	**Hard Grade Ethylene Propylene Rubber**
LDPE	**Low Density Polyethylene**
MDPE	**Medium Density Polyethylene**
LSFOH	**Low Smoke Flame Retardant Zero Halogen**
EPR	**Ethylene Propylene Rubber**
PVCE	**High Temperature PVC (90°C)**
PVCH	**High temperature Sheathing Compound equal to IEC ST2 ,VDE YM5 (90°C)**
APVC	**Anti Termite PVC**
APVCE	**Anti Termite High Temperature PVC (90°C)**
APVCH	**Anti Termite & High Temperature Sheathing Compound equal to IEC ST2 ,VDE YM5 (90°C)**
XPVC	**Cross Linked PVC**
OPVC	**Oil, Acid & Hydrocarbon Resistance Sheathing Compound**
OPVCH	**Oil Resistant & High Temperature Sheathing Compound equal to IEC ST2 ,VDE YM5 (90°C)**

ABHAR CABLE

VDE Abbriviations

N	DIN VDE standard type
(N)	With refrence to DIN VDE standard
A	Aluminium conductor
-	Copper
Y	PVC
2X	Cross-linked PE(VPE)
C	Concentric Cu conductor,in longitudinal twist
CW	Concentric Cu conductor,corrugated
CE	Concentric Cu conductor for individual core
S	Cu shielding
SE	Cu screening per individual core in multi-core cables
H	Conductive layer
(F)	Longitudinally watertight shielding
B	Steel strip reinforcement
F	Flat wire,zinc-plated
G	Counterhelix consisting of zinc-plated steel strip
R	Round-secton wire,zinc-plated
A	Protective cover consisting of fiber materials
K	Lead sheath
KL	Aluminium sheath
Y	PVC
2Y	PE
I	With protective conductor
O	Without protective conductor
r...	Round-section conductor
s...	Sector-section cnductor
o...	Oval conductor
e...	Single wire conductor
m...	Multi-wire conductor
h...	Hollow conductor
N	Compacted conductor

FORMULAS

1- DC Resistance

$$R_{dc_\theta} = R_{dc_{20}}\left[1+\alpha(\theta-20)\right] \qquad (\Omega/km)$$

$R_{dc_{20}}$: Resistance at 20°C_according to IEC 60228 (Ω/km)

α : Temperature coefficient of resistance per degree at 20°C
(Copper = $3.93*10^{-3}$, Aluminium = $4.04*10^{-3}$)

θ : Temperature (°C)

2- AC Resistance

$$R_{AC_\theta} = R_{dc_\theta}\left(1+Y_p+Y_s\right)\left(1+\lambda_1+\lambda_2\right) \qquad (\Omega/km)$$

Y_p : Proximity effect

Y_s : Skin effect

λ_1 : Sheath loss

λ_2 : Armour loss

3- Inductance

$$L = K + 0.2Ln(2S/d) \qquad (mH/km)$$

K : Constant relating to conductor structure

S : Axial cable spacing (S =1.26*phase spacing for flat and single core cables) (mm)

d : Conductor diameter (mm)

K	Strands
0	1
0.078	3
0.0642	7
0.0554	19
0.0528	37
0.0514	61 & over

ABHAR CABLE

FORMULAS

4- Reactance

$$X = \omega L 10^{-3} \qquad (\Omega / km)$$

$\omega = 2\pi f$

L : Inductance (mH/km)

5- Impedance

$$Z = \sqrt{R_{ac}{}^2 + X^2} \qquad (\Omega / km)$$

R_{ac} : AC resistance (Ω / km)

X : Reactance (Ω / km)

6- Short-circiut current

$$I_{SC} = \frac{\varepsilon K S}{\sqrt{t}} \sqrt{\ln\left(\frac{\beta + \theta_F}{\beta + \theta_I}\right)} \qquad (A)$$

ε : Will be calculated acc. to IEC 60949

S : Cross sectional area (mm^2)

t : Duration of short-circuit (Max. 5 sec.)

θ_F : Max. temperature at the short circuit condition (^oC)

θ_I : Max. temperature at the normal operating (^oC)

	Copper	Aluminium	Lead	Steel
K	226	148	41	78
β	234.5	228	230	202

	XLPE	PVC	
		S ≤ 300 mm^2	S >300 mm^2
θ_F	250	160	140
θ_I	90	70	70

ABHAR CABLE

FORMULAS

7- Voltage drop

$$\%\Delta V = \frac{2LIR100}{U}$$ Direct current

$$\%\Delta V = \frac{2LI(R\cos\varphi + X\sin\varphi)100}{U}$$ Alternating current_single phase

$$\%\Delta V = \frac{\sqrt{3}LI(R\cos\varphi + X\sin\varphi)100}{U}$$ Alternating current_three phase

R	: AC resistance	(Ω/km)
X	: Reactance	(Ω/km)
L	: Length	(km)
I	: Current	(A)
U	: Voltage	(V)
cosφ	: Power factor	

8- Insulation Resistance

$$R = \frac{\rho Ln(D/d)10^{-9}}{2\pi} \qquad (M\Omega.km)$$

ρ	: Volume resistivity at 20°C	$(\Omega.m)$
D	: Insulated diameter (mm)	
d	: Conductor diameter (mm)	

9- Maximum Pulling Tension

Unarmoured :

T = K S (N) K = 50 for copper
K = 30 for aluminium

Armoured :

$T = K'D^2$ (N) K' = 9 for wire armour
K'= 3 for tape armour,lead sheath

S	: Conductor cross section	(mm^2)
D	: Cable diameter	(mm)

ABHAR CABLE

Conductors DC Resistance:

1	2	3	4	5	6	7	8	9	10
Nominal cross-sectional area mm^2	Minimum number of wires in the conductor						Maximum resistance of conductor at 20°C		
	Circular		Circular compacted		Shaped		Annealed copper conductor		Aluminium or aluminium alloy conductor[c] ?/km
	Cu	Al	Cu	Al	Cu	Al	Plain wires ?/km	Metal-coated wires ?/km	
0.5	7	-	-	-	-	-	36.5 ohm	36.7 ohm	ohm
0.75	7	-	-	-	-	-	24.5	24.8	-
1	7	-	-	-	-	-	18.1	18.2	-
1.5	7	-	6	-	-	-	12.1	12.2	-
2.5	7	-	6	-	-	-	7.41	7.56	-
4	7	-	6	-	-	-	4.61	4.70	-
6	7	-	6	-	-	-	3.08	3.11	-
10	7	7	6	6	-	-	1.83	1.84	3.08
16	7	7	6	6	-	-	1.15	1.16	1.91
25	7	7	6	6	6	6	0.727	0.734	1.20
35	7	7	6	6	6	6	0.524	0.529	0.868
50	19	19	6	6	6	6	0.387	0.391	0.641
70	19	19	12	12	12	12	0.268	0.27	0.443
95	19	19	15	15	15	15	0.193	0.195	0.32
120	37	37	18	15	18	15	0.153	0.154	0.253
150	37	37	18	15	18	15	0.124	0.126	0.206
185	37	37	30	30	30	30	0.0991	0.1	0.164
240	37	37	34	30	34	30	0.0754	0.0762	0.125
300	61	61	34	30	34	30	0.0601	0.0607	0.100
400	61	61	53	53	53	53	0.047	0.0475	0.0778
500	61	61	53	53	53	53	0.0366	0.0369	0.0605
630	91	91	53	53	53	53	0.0283	0.0286	0.0469
800	91	91	53	53	-	-	0.0221	0.0224	0.0367
1 000	91	91	53	53	-	-	0.0176	0.0177	0.0291
1 200	[b]						0.0151	0.0151	0.0247
1 400 [a]	[b]						0.0129	0.0129	0.0212
1 600	[b]						0.0113	0.0113	0.0186
1 800 [a]	[b]						0.0101	0.0101	0.0165
2 000	[b]						0.0090	0.0090	0.0149
2 500	[b]						0.0072	0.0072	0.0127

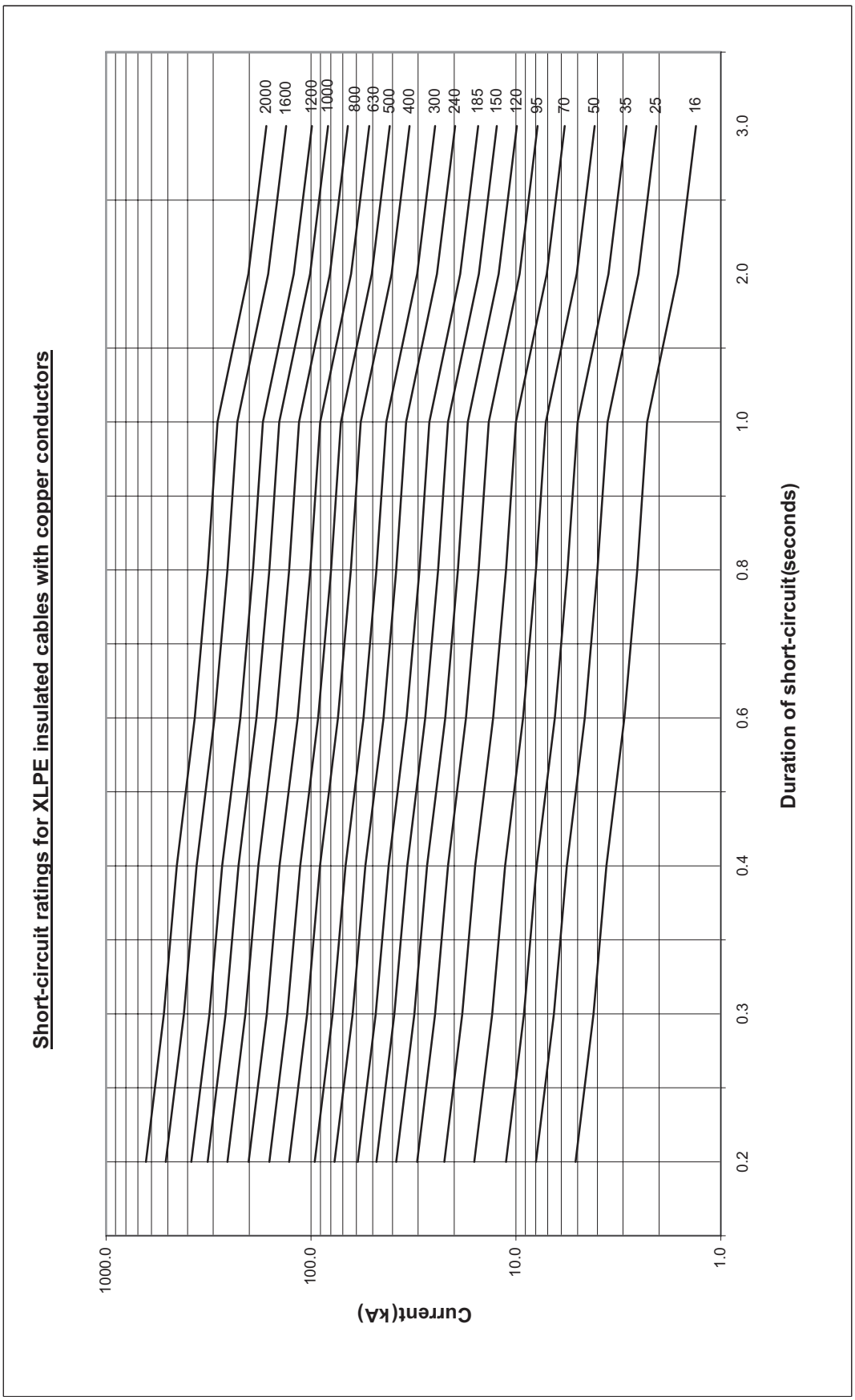
[a] These sizes are non-preferred. Other non-preferred sizes are recognized for some specialized aplications but are not within the scope of this standard .

[b] The minimum number of wires for these sizes is not specified. These sizes may be constructed from 4.5 or 6 equal segments (Milliken).

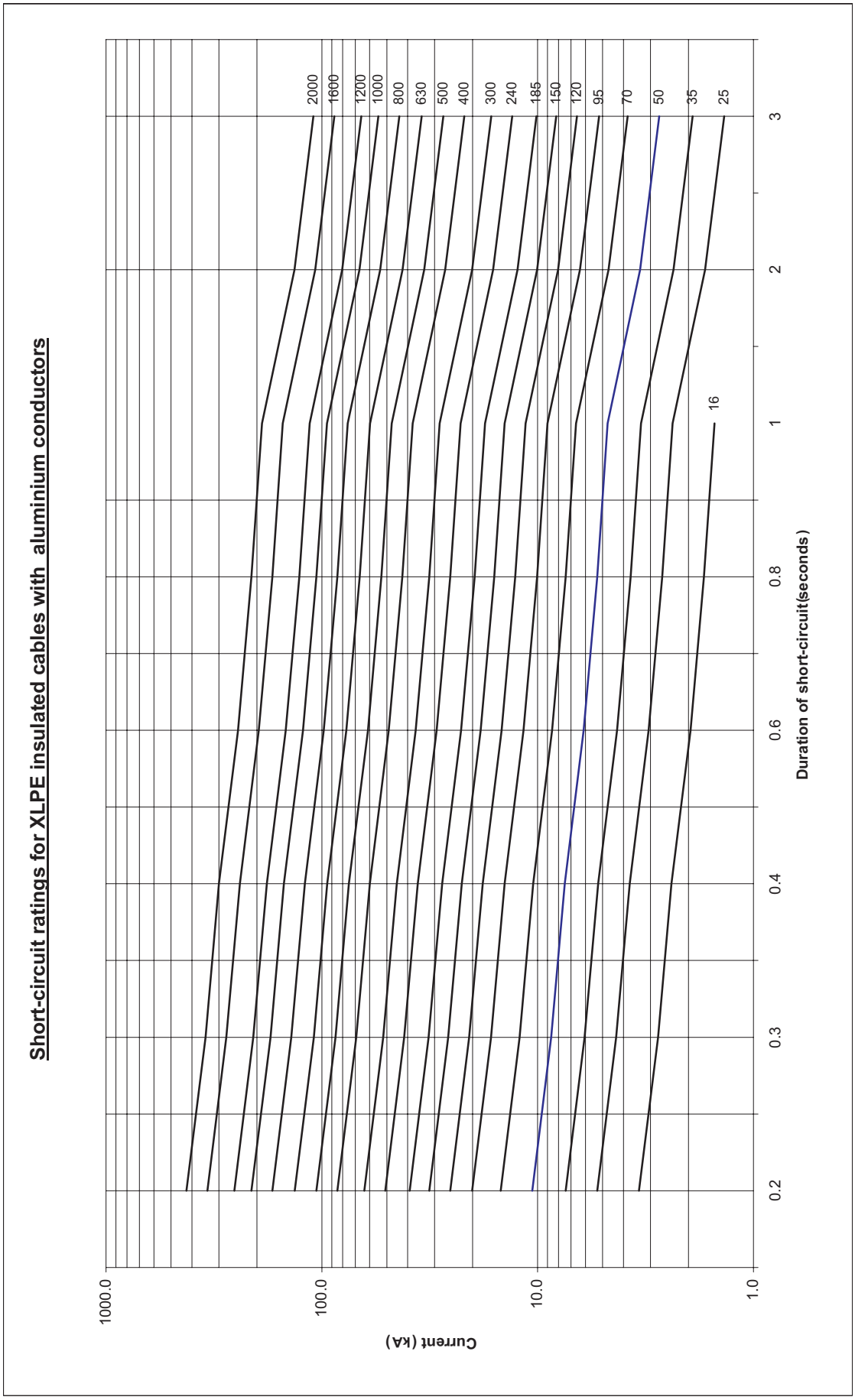
[c] For stranded aluminium alloy conductors having the same nominal cross-sectional area as an aluminium conductor the resistance value should be agreed between the manufacture and the purchaser.

ABHAR CABLE

Short-circuit ratings for XLPE insulated cables with copper conductors

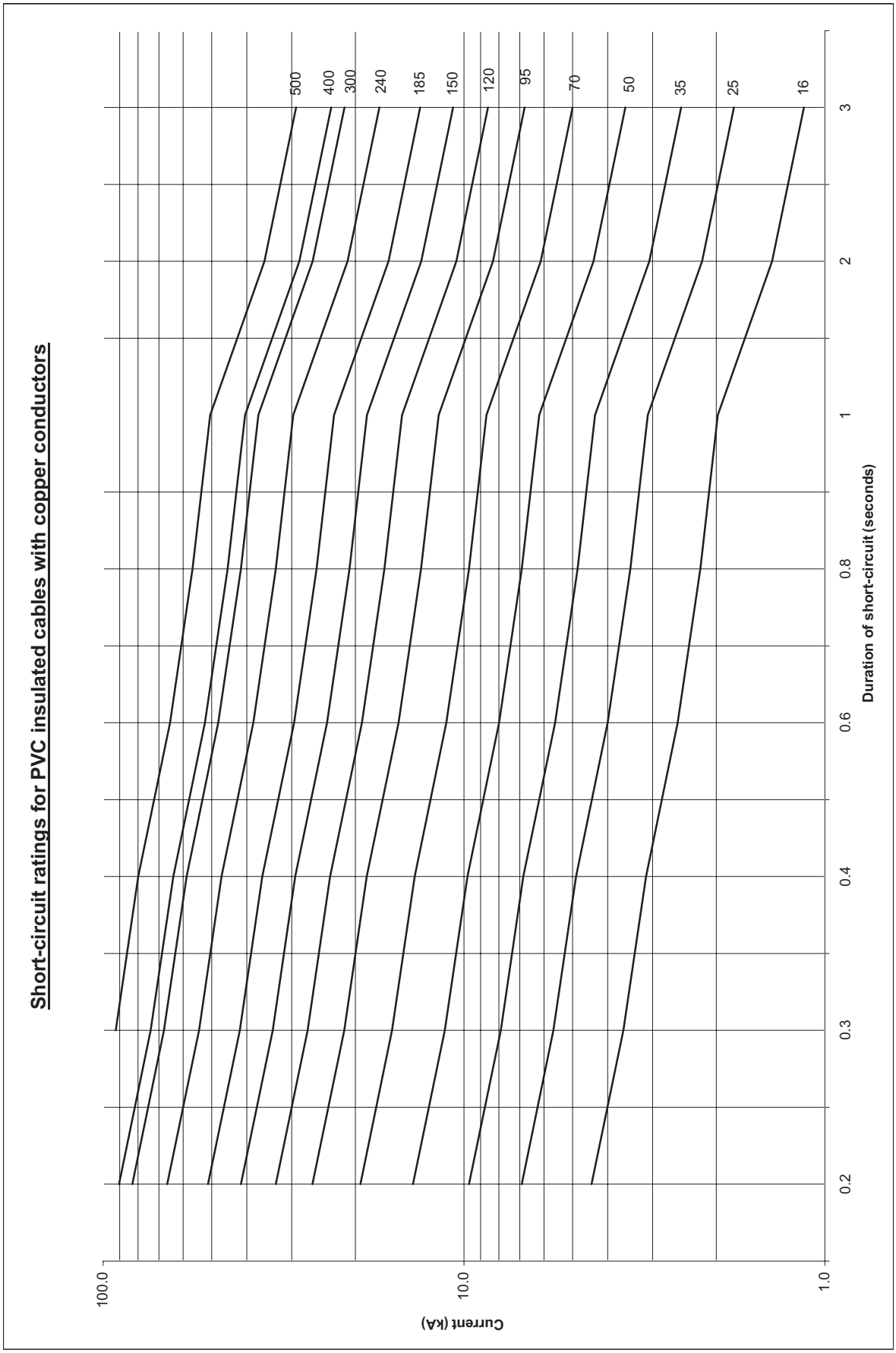


ABHAR CABLE


Short-circuit ratings for XLPE insulated cables with aluminium conductors
2000
1600
1200
1000
800
630
500
400
300
240
185
150
120
95
70
50
35
25
16
1000.0
100.0
10.0
1.0
Current (kA)
0.2
0.3
0.4
0.6
0.8
1
2
3
Duration of short-circuit(seconds)

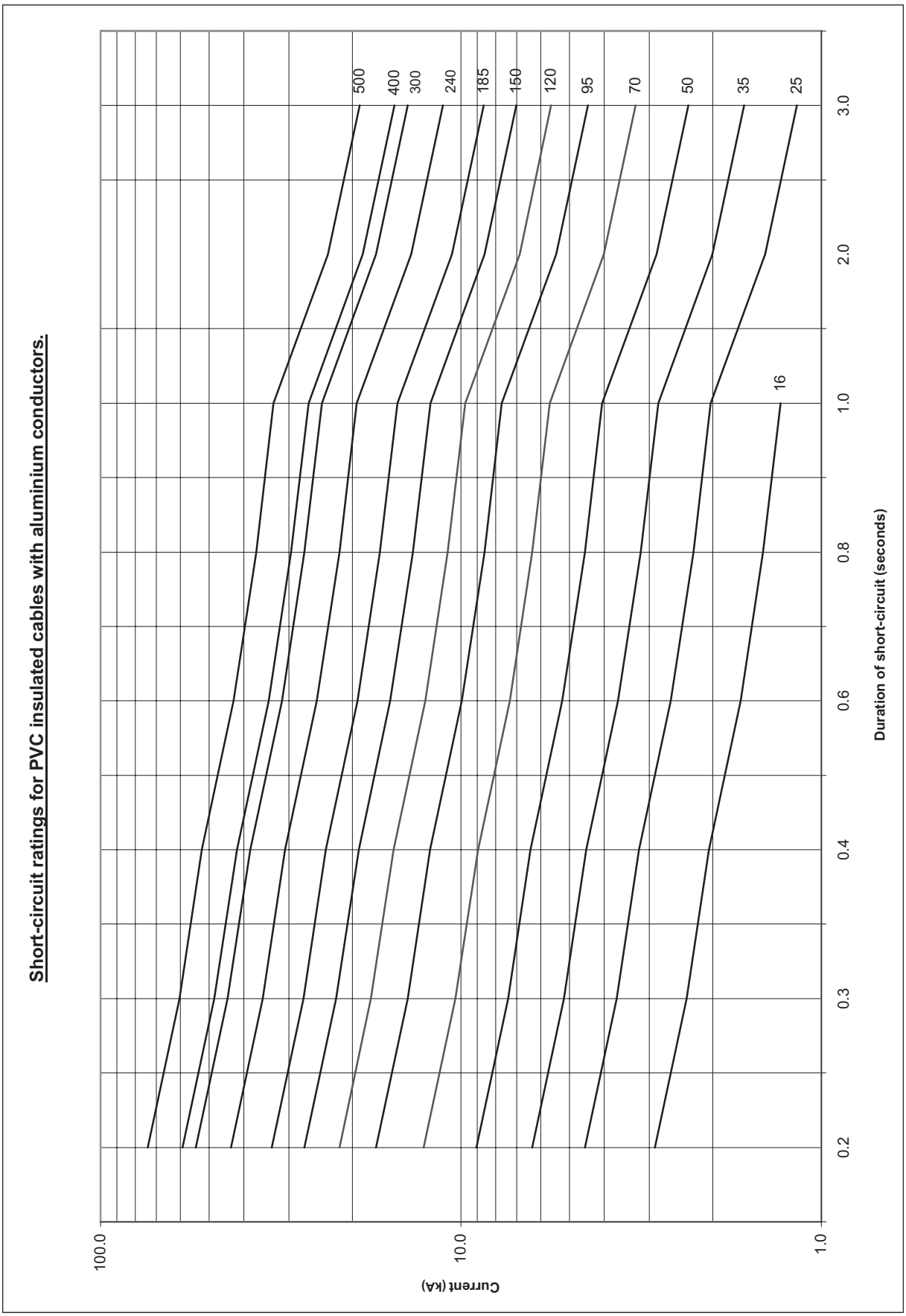
ABHAR CABLE

Short-circuit ratings for PVC insulated cables with copper conductors



ABHAR CABLE

Short-circuit ratings for PVC insulated cables with aluminium conductors.

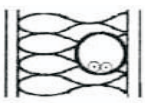
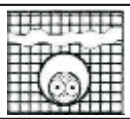


ABHAR CABLE

Table 1- Current carrying capacities in amperes

PVC insulation/Two loaded conductors/Copper or aluminium

Conductor temperature: 70 °C/Ambient temperature: 30 °C in air , 20 °C in ground

Nominal cross sectional area of conductor mm^2	Installation methods					
	A1	A2	B1	B2	C	D
						
1	2	3	4	5	6	7
Copper						
1,5	14,5	14	17,5	16,5	19,5	22
2,5	19,5	18,5	24	23	27	29
4	26	25	32	30	36	38
6	34	32	41	38	46	47
10	46	43	57	52	63	63
16	61	57	76	69	85	81
25	80	75	101	90	112	104
35	99	92	125	111	138	125
50	119	110	151	133	168	148
70	151	139	192	168	213	183
95	182	167	232	201	258	216
120	210	192	269	232	299	246
150	240	219	—	—	344	278
185	273	248	—	—	392	312
240	321	291	—	—	461	361
300	367	334	—	—	530	408
Aluminium						
2,5	15	14,5	18,5	17,5	21	22
4	20	19,5	25	24	28	29
6	26	25	32	30	36	36
10	36	33	44	41	49	48
16	48	44	60	54	66	62
25	63	58	79	71	83	80
35	77	71	97	86	103	96
50	93	86	118	104	125	113
70	118	108	150	131	160	140
95	142	130	181	157	195	166
120	164	150	210	181	226	189
150	189	172	—	—	261	213
185	215	195	—	—	298	240
240	252	229	—	—	352	277
300	289	263	—	—	406	313

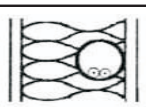
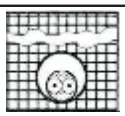
NOTE In columns 3, 5, 6 and 7, circular conductors are assumed for sizes up to and including 16 mm^2.Values for larger sizes relate to shaped conductors and may safely be applied to circular conductors.

ABHAR CABLE

Table 2 - Current carrying capacities in amperes

XLPE or EPR insulation/Two loaded conductors/Copper or aluminium

Conductor temperature: 90 oC/Ambient temperature: 30 oC in air , 20 oC in ground

Nominal cross sectional area of conductor mm^2	Installation methods					
	A1	A2	B1	B2	C	D
						
1	2	3	4	5	6	7
Copper						
1,5	19	18,5	23	22	24	26
2,5	26	25	31	30	33	34
4	35	33	42	40	45	44
6	45	42	54	51	58	56
10	61	57	75	69	80	73
16	81	76	100	91	107	95
25	106	99	133	119	138	121
35	131	121	164	146	171	146
50	158	145	198	175	209	173
70	200	183	253	221	269	213
95	241	220	306	265	328	252
120	278	253	354	305	382	287
150	318	290	—	—	441	324
185	362	329	—	—	506	363
240	424	386	—	—	599	419
300	486	442	—	—	693	474
Aluminium						
2,5	20	19,5	25	23	26	26
4	27	26	33	31	35	34
6	35	33	43	40	45	42
10	48	45	59	54	62	56
16	64	60	79	72	84	73
25	84	78	105	94	101	93
35	103	96	130	115	126	112
50	125	115	157	138	154	132
70	158	145	200	175	198	163
95	191	175	242	210	241	193
120	220	201	281	242	280	220
150	253	230	—	—	324	249
185	288	262	—	—	371	279
240	338	307	—	—	439	322
300	387	352	—	—	508	364

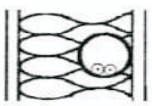
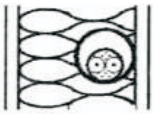
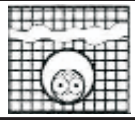
NOTE In columns 3, 5, 6 and 7, circular conductors are assumed for sizes up to and including 16 mm^2 .Values for larger sizes relate to shaped conductors and may safely be applied to circular conductors.

ABHAR CABLE

Table 3- Current carrying capacities in amperes

PVC insulation/Three loaded conductors/Copper or aluminium

Conductor temperature: 70 oC/Ambient temperature: 30 oC in air , 20 oC in ground

Nominal cross sectional area of conductor mm^2	Installation methods					
	A1	A2	B1	B2	C	D
						
1	2	3	4	5	6	7
Copper						
1,5	13,5	13	15,5	15	17,5	18
2,5	18	17,5	21	20	24	24
4	24	23	28	27	32	31
6	31	29	36	34	41	39
10	42	39	50	46	57	52
16	56	52	68	62	76	67
25	73	68	89	80	96	86
35	89	83	110	99	119	103
50	108	99	134	118	144	122
70	136	125	171	149	184	151
95	164	150	207	179	223	179
120	188	172	239	206	259	203
150	216	196	—	—	299	230
185	245	223	—	—	341	258
240	286	261	—	—	403	297
300	328	298	—	—	464	336
Aluminium						
2,5	14	13,5	16,5	15,5	18,5	18,5
4	18,5	17,5	22	21	25	24
6	24	23	28	27	32	30
10	32	31	39	36	44	40
16	43	41	53	48	59	52
25	57	53	70	62	73	66
35	70	65	86	77	90	80
50	84	78	104	92	110	94
70	107	98	133	116	140	117
95	129	118	161	139	170	138
120	149	135	186	160	197	157
150	170	155	—	—	227	178
185	194	176	—	—	259	200
240	227	207	—	—	305	230
300	261	237	—	—	351	260

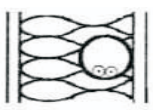
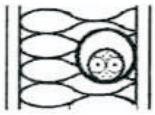
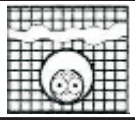
NOTE In columns 3, 5, 6 and 7, circular conductors are assumed for sizes up to and including 16 mm^2.Values for larger sizes relate to shaped conductors and may safely be applied to circular conductors.

ABHAR CABLE

Table 4- Current carrying capacities in amperes

XLPE or EPR insulation/Three loaded conductors/Copper or aluminium

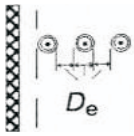
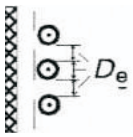
Conductor temperature: 90 oC/Ambient temperature: 30 oC in air , 20 oC in ground

Nominal cross sectional area of conductor mm^2	Installation methods					
	A1	A2	B1	B2	C	D
						
1	2	3	4	5	6	7
Copper						
1,5	17	16,5	20	19,5	22	22
2,5	23	22	28	26	30	29
4	31	30	37	35	40	37
6	40	38	48	44	52	46
10	54	51	66	60	71	61
16	73	68	88	80	96	79
25	95	89	117	105	119	101
35	117	109	144	128	147	122
50	141	130	175	154	179	144
70	179	164	222	194	229	178
95	216	197	269	233	278	211
120	249	227	312	268	322	240
150	285	259	—	—	371	271
185	324	295	—	—	424	304
240	380	346	—	—	500	351
300	435	396	—	—	576	396
Aluminium						
2,5	19	18	22	21	24	22
4	25	24	29	28	32	29
6	32	31	38	35	41	36
10	44	41	52	48	57	47
16	58	55	71	64	76	61
25	76	71	93	84	90	78
35	94	87	116	103	112	94
50	113	104	140	124	136	112
70	142	131	179	156	174	138
95	171	157	217	188	211	164
120	197	180	251	216	245	186
150	226	206	—	—	283	210
185	256	233	—	—	323	236
240	300	273	—	—	382	272
300	344	313	—	—	440	308

NOTE In columns 3, 5, 6 and 7, circular conductors are assumed for sizes up to and including 16 mm^2 .Values for larger sizes relate to shaped conductors and may safely be applied to circular conductors.

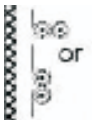
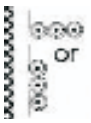
ABHAR CABLE

Table 5- Current carrying capacities in amperes
PVC insulation/Copper conductors
Conductor temperature:70 °C/Reference ambient temperature:30 °C

Nominal cross sectionalareal area of conductor mm²	Installation methods						
	Multi core cables		Single core cable				
	Two loaded conductors	Three loaded conductors	Two loaded conductors touching	Three loaded conductors trefoil	Three loaded conductors, flat		
					Touching	Spaced	
						Horizontal	Vertical
							
	Method E	Method E	Method F	Method F	Method F	Method G	Method G
1	2	3	4	5	6	7	8
1,5	22	18,5	—	—	—	—	—
2,5	30	25	—	—	—	—	—
4	40	34	—	—	—	—	—
6	51	43	—	—	—	—	—
10	70	60	—	—	—	—	—
16	94	80	—	—	—	—	—
25	119	101	131	110	114	146	130
35	148	126	162	137	143	181	162
50	180	153	196	167	174	219	197
70	232	196	251	216	225	281	254
95	282	238	304	264	275	341	311
120	328	276	352	308	321	396	362
150	379	319	406	356	372	456	419
185	434	364	463	409	427	521	480
240	514	430	546	485	507	615	569
300	593	497	629	561	587	709	659
400	—	—	754	656	689	852	795
500	—	—	868	749	789	982	920
630	—	—	1005	855	905	1138	1070

NOTE Circular conductors are assumed for sizes up to and including 16 mm². Values for larger sizes related to shaped conductors and may safely be applied to circular conductors

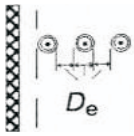
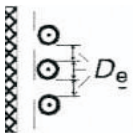
Table 6- Current carrying capacities in amperes
PVC insulation/Aluminium conductors
Conductor temperature:70 °C/Reference ambient temperature:30 °C

Nominal cross sectionalareal area of conductor mm^2	Insullation methods						
	Multi core cables		Single core cable				
	Two loaded conductors	Three loaded conductors	Two loaded conductors touching	Three loaded conductors trefoil	Three loaded conductors, flat		
					Touching	Spaced	
						Horizontal	Vertical
							
	Method E	Method E	Method F	Method F	Method F	Method G	Method G
1	2	3	4	5	6	7	8
2,5	23	19,5	—	—	—	—	—
4	31	26	—	—	—	—	—
6	39	33	—	—	—	—	—
				—	—	—	—
10	54	46	—	—	—	—	—
16	73	61	—	—	—	—	—
25	89	78	98	84	87	112	99
35	111	96	122	105	109	139	124
50	135	117	149	128	133	169	152
70	173	150	192	166	173	217	196
95	210	183	235	203	212	265	241
120	244	212	273	237	247	308	282
150	282	245	316	274	287	356	327
185	322	280	363	315	330	407	376
240	380	330	430	375	392	482	447
300	439	381	497	434	455	557	519
400	—	—	600	526	552	671	629
500	—	—	694	610	640	775	730
630	—	—	808	711	746	900	852

NOTE Circular conductors are assumed for sizes up to and including 16 mm^2.Values for larger sizes related to shaped conductors and may safely be applied to circular conductors

ABHAR CABLE

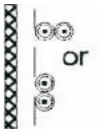
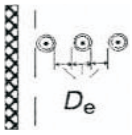
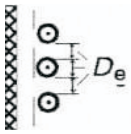
Table 7- Current carrying capacities in amperes
XLPE or EPR insulation/Copper conductors
Conductor temperature: 90 °C/Reference ambient temperature: 30 °C

Nominal cross sectionalareal area of conductor mm²	Insullation methods						
	Multi core cables		Single core cable				
	Two loaded conductors	Three loaded conductors	Two loaded conductors touching	Three loaded conductors trefoil	Three loaded conductors, flat		
					Touching	Spaced	
						Horizontal	Vertical
							
	Method E	Method E	Method F	Method F	Method F	Method G	Method G
1	2	3	4	5	6	7	8
1,5	26	23	—	—	—	—	—
2,5	36	32	—	—	—	—	—
4	49	42	—	—	—	—	—
6	63	54					
10	86	75	—	—	—	—	—
16	115	100	—	—	—	—	—
25	149	127	161	135	141	182	161
35	185	158	200	169	176	226	201
50	225	192	242	207	216	275	246
70	289	246	310	268	279	353	318
95	352	298	377	328	342	430	389
120	410	346	437	383	400	500	454
150	473	399	504	444	464	577	527
185	542	456	575	510	533	661	605
240	641	538	679	607	634	781	719
300	741	621	783	703	736	902	833
400	—	—	940	823	868	1085	1008
500	—	—	1083	946	998	1253	1169
630	—	—	1254	1088	1151	1454	1362

NOTE Circular conductors are assumed for sizes up to and including 16 mm². Values for larger sizes relate to shaped conductors and may safely be applied to circular conductors

ABHAR CABLE

Table 8- Current carrying capacities in amperes
XLPE or EPR insulation/Aluminium conductors
Conductor temperature: 90 °C/Reference ambient temperature: 30 °C

Nominal cross sectionalareal area of conductor mm^2	Insullation methods						
	Multi core cables		Single core cable				
	Two loaded conductors	Three loaded conductors	Two loaded conductors touching	Three loaded conductors trefoil	Three loaded conductors, flat		
					Touching	Spaced	
						Horizontal	Vertical
							
	Method E	Method E	Method F	Method F	Method F	Method G	Method G
1	2	3	4	5	6	7	8
2,5	28	24	—	—	—	—	—
4	38	32	—	—	—	—	—
6	49	42					
10	67	58	—	—	—	—	—
16	91	77	—	—	—	—	—
25	108	97	121	103	107	138	122
35	135	120	150	129	135	172	153
50	164	146	184	159	165	210	188
70	211	187	237	206	215	271	244
95	257	227	289	253	264	332	300
120	300	263	337	296	308	387	351
150	346	304	389	343	358	448	408
185	397	347	447	395	413	515	470
240	470	409	530	471	492	611	561
300	543	471	613	547	571	708	652
400	—	—	740	663	694	856	792
500	—	—	856	770	806	991	921
630	—	—	996	899	942	1154	1077

NOTE Circular conductors are assumed for sizes up to and including 16 mm^2.Values for larger sizes relate to shaped conductors and may safely be applied to circular conductors

ABHAR CABLE

Table 9- Correction factor for ambient air temperatures other than 30oC to be applied to the current carrying capacities for cables in the air

Ambient temperature [a] °C	Insulation		Mineral [a]	
	PVC	XLPE and EPR	PVC covered or bare and exposed to touch 70o C	Bare not exposed to touch 105 Oc
10	1,22	1,15	1,26	1,14
15	1,17	1,12	1,20	1,11
20	1,12	1,08	1,14	1,07
25	1,06	1,04	1,07	1,04
35	0,94	0,96	0,93	0,96
40	0,87	0,91	0,85	0,92
45	0,79	0,87	0,87	0,88
50	0,71	0,82	0,67	0,84
55	0,61	0,76	0,57	0,80
60	0,50	0,71	0,45	0,75
65	—	0,65	—	0,70
70	—	0,58	—	0,65
75	—	0,50	—	0,60
80	—	0,41	—	0,54
85	—	—	—	0,47
90	—	—	—	0,40
95	—	—	—	0,32

[a] For higher ambient temperatures, consult manufacturer.

Table 10 - Correction factors for ambient ground temperatures other than 20 °C to be applied to the current carrying capacities for cables in ducts in the ground

Ground temperature °C	Insulation	
	PVC	XLPE and EPR
10	1,10	1,07
15	1,05	1,04
25	0,95	0,96
30	0,89	0,93
35	0,84	0,89
40	0,77	0,85
45	0,71	0,80
50	0,63	0,76
55	0,55	0,71
60	0,45	0,65
65	—	0,60
70	—	0,53
75	—	0,46
80	—	0,38

Table 11 - Correction factors for cables in buried ducts for soil thermal resistivities other than 2,5 K.m/W to be applied to the current carrying capacities for reference method D

Thermal resistivity, K.m/W	1	1,5	2	2,5	3
Correction factor	1,18	1,1	1,05	1	0,96

NOTE 1 The correction factors given have been averaged over the range of conductor sizes and types of installation included in tables 1 to 4 . The overall accuracy of correction factors in within ± 5% .

NOTE 2 The correction factors are applicable to cables drawn into buried ducts ; for cables laid direct in the ground the correction factors for thermal resistivities less than 2,5 K.m/W will be higher.Where more precise values are required they may be calculated by methods given in IEC 60287 .

NOTE 3 The correction factors are applicable to ducts buried at depths of up to 0,8 m.

Table 12 - Reduction factors for groups of more than one than one circuit or of more than one multi core cable to be used with current carrying capacities of tables 1 to 8

Item	Arrangement (cables touching)	Number of circuits or multi core cables												To be used with current carrying capacities reference
		1	2	3	4	5	6	7	8	9	12	16	20	
1	Buched in air,on a surface,embedded or, enclosed	1,00	0,80	0,70	0,65	0,60	0,57	0,54	0,52	0,50	0,45	0,41	0,38	1 to 4 Method A-F
2	Single layer on wall,floor or unperforated tray	1,00	0,85	0,79	0,75	0,73	0,72	0,72	0,71	0,70	No futher reduction factor for more than nine circuits or multicore cables			1 to 8 Method C
3	Single layer fixed directly under a wooden ceiling	0,95	0,81	0,72	0,68	0,66	0,64	0,63	0,62	0,61				
4	Single layer on a perforated horizontal or vertical tray	1,00	0,88	0,82	0,77	0,75	0,73	0,73	0,72	0,72				5 to 8 Methods E and F
5	Single layer on ladder support or cleats etc.	1,00	0,87	0,82	0,80	0,80	0,79	0,79	0,78	0,78	0,70	0,64	0,59	

NOTE 1 These factors are applicable to uniform groups of cables, equally loaded.

NOTE 2 Where horizontal clearances between adjacent cables exceeds twice their overall diameter, no reduction factor need applied.

NOTE 3 The same factors applied to :

groups of two or three single core cables:

multi core cables.

NOTE 4 If a system consists of both two- and three core cables, the total number of cables is taken as the number of circuits, and the corresponding factor is applied to the tables for two loaded conductors for the two core cables and to the tables for three loaded conductors for the three core cables.

NOTE 5 If a group consists of *n* single core cables it may either be considered as *n*/2 circuits of two loaded conductors or *n*/3 cirecuits of three loaded conductors.

NOTE 6 The values given have been averaged over the range of conductor sizes and types of installation included in tables 1 to 8 the overall accuracy of tabulated values is within 5%.

NOTE 7 For some installations and for other methods not provided for in the above table, it may be appropriate to use factors calculated for specific cases.

Table13 - Reduction factors for more than one circuit,
cables laid directly in the ground
Installation method D in tables 1 to 4
Single core or multi core cables

Number of circuits	cable to cable clearance (a)[a]				
	Nil (cables touching)	One cable diameter	0,125 m	0,25 m	0,5 m
2	0,75	0,80	0,85	0,90	0,90
3	0,65	0,70	0,75	0,80	0,85
4	0,60	0,60	0,70	0,75	0,80
5	0,55	0,55	0,65	0,70	0,80
6	0,50	0,55	0,60	0,70	0,80

[a] Multi core cables

[a] Single core cables

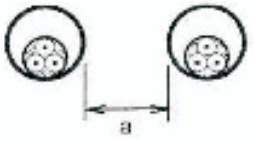
NOTE Values given apply to an installation depth of 0,7 m and a soil thermal resistivity of 2,5 K.m/W. They are average values for the range of cable sizes and types quoted for tables 1 to 4. The process of averaging, together with rounding off, can result in some cases in errors up to ± 10 %. (Where more precise values are required they may be calculated by methods given in IEC 60287-2-1).

Table 14 - Reduction factors for more than one circuit,
cables laid in ducts in the ground
Installation method D in tables 1 to 4

A) Multi core cables in single way ducts

Number of cables	Duct to duct clearance (a)[a]			
	Nil (cables touching)	0,25 m	0,5 m	1,0 m
2	0,85	0,90	0,95	0,95
3	0,75	0,85	0,90	0,95
4	0,70	0,80	0,85	0,90
5	0,65	0,80	0,85	0,90
6	0,60	0,80	0,80	0,90

[a] Multi core cables

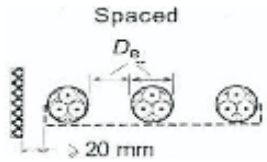
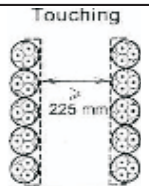
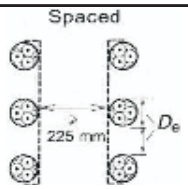
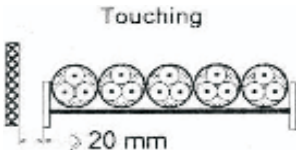
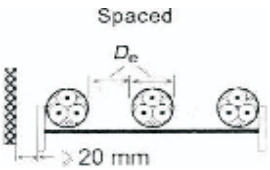


NOTE Values given apply to an installation depth of 0,7 m and a soil thermal resistivity of 2,5 K.m/W.
They are average values for the range of cable sizes and types quoted for tables 1 to 4. The process of averaging, together with rounding off, can result in some cases in errors up to ± 10 %.
Where more precise values are required they may be calculated by methods given in IEC 60287

B) Single core cables in single way ducts

Number of core circuits of two or three cables	Duct to duct clearance (a)[a]			
	Nil (cables touching)	0,25 m	0,5 m	1,0 m
2	0,80	0,90	0,90	0,95
3	0,70	0,80	0,85	0,90
4	0,65	0,75	0,80	0,90
5	0,60	0,70	0,80	0,90
6	0,60	0,70	0,80	0,90

Table 15 - Reduction factors for group of more than one multi core cable
to be applied to reference ratings for multi core cables in free air
Method of installation E in tables 5 to 8

Methods of installation			Number of trays	Number of cables					
				1	2	3	4	6	9
Perforated trays (note 3)	31	Touching 	1 2 3	1,00 1,00 1,00	0,88 0,87 0,86	0,82 0,80 0,79	0,79 0,77 0,76	0,76 0,73 0,71	0,73 0,68 0,66
		Spaced 	1 2 3	1,00 1,00 1,00	1,00 0,99 0,98	0,98 0,96 0,95	0,95 0,92 0,91	0,91 0,87 0,85	
Vertical perforated trays (note4)	31	Touching 	1 2	1,00 1,00	0,88 0,88	0,82 0,81	0,78 0,76	0,73 0,71	0,72 0,70
		Spaced 	1 2	1,00 1,00	0,91 0,91	0,89 0,88	0,88 0,87	0,87 0,85	
Ladder supports cleats, etc. (note 3)	32 33 34	Touching 	1 2 3	1,00 1,00 1,00	0,87 0,86 0,85	0,82 0,80 0,79	0,80 0,78 0,76	0,79 0,76 0,73	0,78 0,73 0,70
		Spaced 	1 2 3	1,00 1,00 1,00	1,00 0,99 0,98	1,00 0,98 0,97	1,00 0,97 0,96	1,00 0,96 0,93	

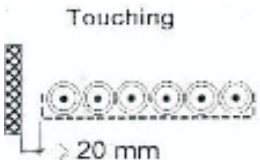
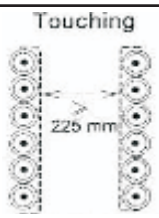
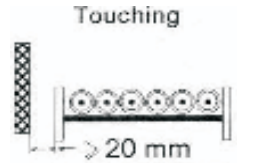
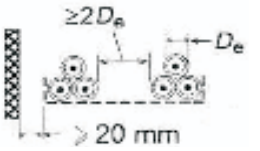
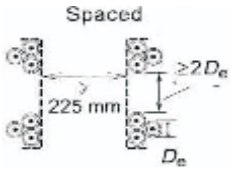
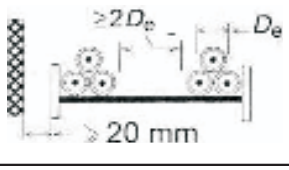
NOTE 1 Values given are averages for the cables types and range of conductor sizes considered in tables 5 to 8. The spread of values is generally less than 5 %

NOTE 2 Factors apply to single layer groups of cables as shown above and do not apply when cables are installed in more than one layer touching each other.Values for such installations may be significantly lower and must be determined by an appropriate method.

NOTE 3 Values are given for vertical spacings between trays of 300 mm and at least 20 mm between trays and wall.For closer spacing the factors should be reduced.

NOTE 4 Values are given for horizontal specing between trays of 225 mm with trays mounted back to back . For closer spacing the factors should be reduced.

Table 16 - Reduction factors for group of more than one circuit of single core cables (note 2) to be applied to reference rating for one circuit of single core cables in free air
Method of installation F in tables. 5 to 8

Method of installation			Number of trays	Number of three phase circuits (note 5)			Use as a multiplier to rating for
				1	2	3	
Perforated trays (note 3)	31		1 2 3	0,98 0,96 0,95	0,91 0,87 0,86	0,87 0,81 0,78	Three cables in horizontal formation
Vertical perforated trays (note 4)	31		1 2	0,96 0,95	0,86 0,84		Three cables in vertical formation
Ladder supportes cleats, etc (note 3)	32 33 34		1 2 3	1,00 0,98 0,97	0,97 0,93 0,92	0,96 0,89 0,86	Three cables in horizontal formation
Perforated trays (note 3)	31		1 2 3	1,00 0,97 0,96	0,98 0,93 0,92	0,96 0,89 0,86	Three cables in trefoil formation
Vertical perforated trays (note 4)	31		1 2	1,00 1,00	0,91 0,90	0,89 0,86	
Ladder supportes cleats, etc (note 3)	32 33 34		1 2 3	1,00 0,97 0,96	1,00 0,95 0,94	1,00 0,93 0,90	

NOTE 1 Values given are averages for the cable types and range of conductor sizes considered in table 5 to 8. The spread of values is generally less than 5%

NOTE 2 Factors are given for single layers of cables (or trefoil groups) as shown in the table and do not apply when cables are installed in more than one layer of touching each other. Values for such installations may be significantly lower and must be determined by an appropriate method.

NOTE 3 Values are given for vertical spacings between trays of 300 m. For closer spacing the factors should be reduced.

NOTE 4 Values are given for horizontal spacing between trays of 225 m with trays mounted back to back and at least 20mm between the trays and any wall. For closer spacing the factors should be reduced.

NOTE 5 For circuits having more than one cable in parallel per phase , each three phase set of conductors should be considered as a circuit for the purpose of this table.

ABHAR CABLE

Table 17 - Reduction factors for groups of several circuits or of several multi core cables

Item	Arrangement	Number of circuits or multi core cables								
		1	2	3	4	6	9	12	16	20
1	Embedded or enclosed	1,00	0,80	0,70	0,70	0,55	0,50	0,45	0,40	0,40
2	Single layer on walls, floors or on unperforated trays	1,00	0,85	0,80	0,75	0,70	0,70			
3	Single layer fixed directly under a ceiling	0,95	0,80	0,70	0,70	0,65	0,60			
4	Single layer on perforated horizontal trays or on vertical trays	1,00	0,90	0,80	0,75	0,75	0,70			
5	Single layer on cable ladder supports or caeats, etc	1,00	0,85	0,80	0,80	0,80	0,80			

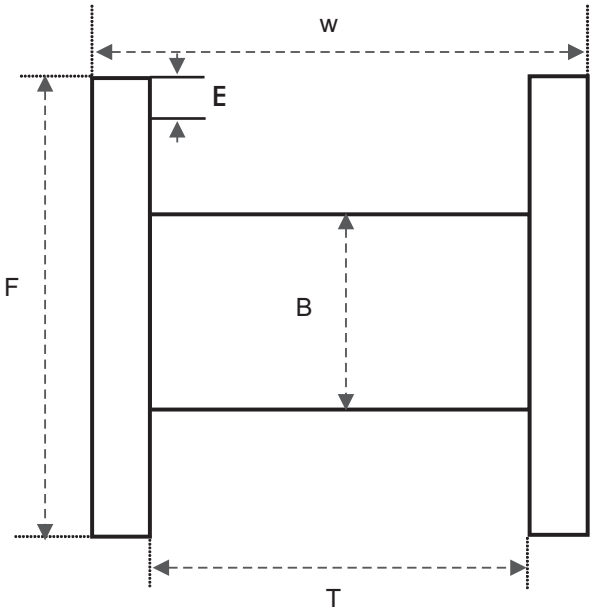
Max Cable length in meters on standard drums

Drum Sizes

Cable Dia.mm	6	8	10	12	14	16	18	20	22	24	26	30	Cable Dia.mm
6	1326	3961											6
7	975	2910											7
8	746	2228	4391										8
9	590	1760	3470										9
10	478	1426	2810	4566									10
11	395	1178	2323	3774									11
12	332	990	1952	3171	4912								12
13	283	844	1663	2702	4185								13
14		727	1434	2330	3609	4934							14
15		634	1249	2029	3144	4298							15
16		557	1098	1784	2763	3777							16
17		493	972	1580	2448	3346	4858						17
18		440	867	1409	2183	2985	4333	4643					18
19		395	778	1265	1959	2679	3889	4167	4722				19
20		356	703	1142	1768	2417	3510	3760	4262				20
21		323	637	1035	1604	2193	3183	3411	3866				21
22		295	581	943	1461	1998	2901	3108	3522	4815			22
23		270	531	863	1337	1828	2654	2843	3223	4406			23
24			488	793	1228	1679	2437	2611	2960	4046			24
25			450	731	1132	1547	2246	2407	2728	3729			25
26			416	675	1046	1430	2077	2225	2522	3448			26
27			386	626	970	1326	1926	2063	2338	3197			27
28			358	582	902	1233	1791	1919	2174	2973			28
29			334	543	841	1150	1669	1789	2027	2771	4826		29
30			312	507	786	1074	1560	1671	1894	2590	4510		30
31			292	475	736	1006	1461	1565	1774	2425	4224		31
32			274	446	691	944	1371	1469	1665	2276	3964		32
33			258	419	650	888	1289	1381	1565	2140	3727	4999	33
34				395	612	836	1214	1301	1475	2016	3511	4709	34
35				373	577	789	1146	1228	1392	1903	3313	4444	35
36				352	546	746	1083	1161	1315	1798	3132	4200	36
37				334	517	706	1026	1099	1245	1702	2965	3976	37
38				316	490	670	972	1042	1181	1614	2811	3770	38
39				300	465	636	923	989	1121	1532	2669	3579	39
40				285	442	604	877	940	1065	1457	2537	3402	40
41				272	421	575	835	895	1014	1386	2415	3238	41
42				259	401	548	796	853	966	1321	2301	3086	42
43					383	523	759	814	922	1260	2195	2944	43
44					365	499	725	777	881	1204	2097	2812	44
45					349	478	693	743	842	1151	2004	2688	45
46					334	457	663	711	806	1101	1918	2573	46
47					320	438	636	681	772	1055	1837	2464	47
48					307	420	609	653	740	1012	1762	2363	48
49					295	403	585	626	710	971	1691	2267	49
50					283	387	562	602	682	932	1624	2178	50
51					272	372	540	578	655	896	1561	2093	51
52					262	358	519	556	630	862	1501	2013	52
53					252	344	500	535	607	830	1445	1938	53
54						332	481	516	585	799	1392	1867	54
55						320	464	497	564	770	1342	1800	55
56						308	448	480	544	743	1294	1736	56
57						298	432	463	525	717	1249	1676	57
58						287	417	447	507	693	1207	1618	58
59						278	403	432	490	670	1166	1564	59
60						269	390	418	474	647	1127	1512	60
61						260	377	404	458	626	1091	1463	61
62						252	365	391	443	606	1056	1416	62
63							354	379	430	587	1023	1372	63
64							343	367	416	569	991	1329	64
65							332	356	403	552	961	1288	65
66							322	345	391	535	932	1250	66
67							313	335	380	519	904	1213	67
68							304	325	369	504	878	1177	68
69							295	316	358	490	853	1143	69
70							287	307	348	476	828	1111	70
71							278	298	338	462	805	1080	71
72							271	290	329	450	783	1050	72
73							263	282	320	437	762	1022	73
74							256	275	311	426	741	994	74
75							250	267	303	414	722	968	75
76								260	295	403	703	942	76
77								254	288	393	685	918	77
78									280	383	667	895	78
79									273	373	650	872	79
80									266	364	634	851	80
81									260	355	619	830	81
82									254	347	604	810	82
83										338	589	790	83
84										330	575	772	84
85										323	562	753	85
86										315	549	736	86
87										308	536	719	87
88										301	524	703	88
89										294	512	687	89
90										288	501	672	90
91										281	490	657	91
92										275	480	643	92
93										269	469	629	93
94										264	459	616	94
95										258	450	603	95
96										253	440	591	96
97											431	579	97
98											423	567	98
99											414	555	99
100											406	544	100

ABHAR CABLE

Drum size	Flange Dia. F	Barrel Dia. B	Traverse T	Width overall W	Drum weight Kg
6	600	300	400	430	20
8	800	350	520	600	30
10	1000	450	620	700	50
12	1200	600	720	820	70
14	1400	700	790	920	125
16	1600	900	900	1028	175
18	1800	1100	1120	1248	290
20	2000	1200	1120	1248	330
22	2200	1400	1120	1248	450
24	2400	1600	1370	1570	595
26	2600	1600	1700	1900	645
30	3000	2000	1900	2100	770



$$L_T = \frac{\pi NP\ (B + PD)}{1000}$$

$$P = \frac{F - B - 2E}{2D}$$

$$N = 0.95\ \frac{T}{D}$$

L_T = Length of Cable (m)
F = Flange Dia. (mm)
B = Barrel Dia. (mm)
D = Cable Dia. (mm)
T = Traverse (mm)
E = Empty Space (mm)

ABHAR CABLE