

ICE60502-PhysicalProperties-ABC-IEC60502-No Street Lighting

NominalSize	Phase-AAC Conductor			Neutral/Messenger-AAAC Conductor				Total	
Phase+Neutral/ Messenger	Min. Wires NO.	Insulation Thickness	Insulated Conductor O.D.	Min. Wires NO.	Insulation Thickness	Insulated Conductor O.D.	Breaking load	OD	Weight
Core x Section-area (mm ²)	n	mm	mm	n	mm	mm	kN	mm	kg/km
1X16+1X25	6	1	6.8	6	1.2	8.5	6.4	15.3	160
3X16+1X25	6	1	6.8	6	1.2	8.5	6.4	19	290
3X25+1X25	6	1.2	8.5	6	1.2	8.5	6.4	23.2	400
3X35+1X25	6	1.2	9.5	6	1.2	8.5	6.4	25.6	500
3X50+1X35	6	1.4	11.2	6	1.2	9.5	8.9	30	680
3X70+1X50	12	1.4	13	6	1.4	11.2	12.1	34.9	920
3X95+1X70	15	1.6	15.1	12	1.4	13.1	18	40.6	1270
3X120+1X70	15	1.6	16.6	12	1.4	13.1	18	44.1	1510
3X150+1X95	30	1.8	18.4	15	1.6	15.1	24.2	49.2	1870
3X185+1X120	30	2	20.6	15	1.6	16.6	30.8	54.9	2340

ICE60502-ElectricalProperties-ABC-IEC60502-NoStreet Lighting

NominalSize	Phase-AAC Conductor				Neutral/Messenger-AAAC Conductor	
Phase+Neutral/ Messenger	Min.Wires No.	Max.DC Resistance	Ampacity	Max Volt. Drop	Min.Wires No.	Max.DC Resistance
Core x Section-area(mm ²)	n	Ohm/km	A	mV/A/m	n	Ohm/km
1X16+1X25	6	1.91	61	4.67	6	1.312
3X16+1X25	6	1.91	61	4.05	6	1.312
3X25+1X25	6	1.2	84	2.54	6	1.312
3X35+1X25	6	0.868	104	1.84	6	1.312
3X50+1X35	6	0.641	129	1.36	6	0.943
3X70+1X50	12	0.443	167	0.95	6	0.693
3X95+1X70	15	0.32	209	0.69	12	0.469
3X120+1X70	15	0.253	246	0.55	12	0.469
3X150+1X95	30	0.206	283	0.46	15	0.349
3X185+1X120	30	0.164	332	0.37	15	0.273

ICE60502-PhysicalProperties-ABC-IEC 60502 -With Street Lighting

NominalSize	Phase-AAC Conductor			Neutral/Messenger-AAAC Conductor			
Phase+Neutral/ Messenger	Min. Wires No.	Insulation Thickness	Insulated Conductor O.D.	Min. Wires No.	Insulation Thickness	Insulated Conductor O.D.	Breaking load
Core x Section-area (mm ²)	n	mm	mm	n	mm	mm	kN
3X25+1X25+1X16	6	1.2	8.5	6	1.2	8.5	6.4
3X35+1X25+1X16	6	1.2	9.5	6	1.2	8.5	6.4
3X50+1X35+1X16	6	1.4	11.2	6	1.2	9.5	8.9
3X70+1X50+1X16	12	1.4	13	6	1.4	11.2	12.1
3X95+1X70+1X16	15	1.6	15.1	12	1.4	13.1	18
3X120+1X70+1X16	15	1.6	16.6	12	1.4	13.1	18
3X150+1X95+1X16	30	1.8	18.4	15	1.6	15.1	24.2
3X185+1X120+1X16	30	2	20.6	15	1.6	16.6	30.8

NominalSize	Street Lighting-AAC Conductor			Total	
Phase+Neutral/ Messenger	Min. Wires No.	Insulation Thickness	Insulated Conductor O.D.	O.D	weight
Core x Section-area (mm ²)	n	mm	mm	mm	kg/km
3X25+1X25+1X16	6	1	6.8	23.2	470
3X35+1X25+1X16	6	1	6.8	25.6	560
3X50+1X35+1X16	6	1	6.8	30	740
3X70+1X50+1X16	6	1	6.8	34.9	980
3X95+1X70+1X16	6	1	6.8	40.6	1330
3X120+1X70+1X16	6	1	6.8	44.1	1580
3X150+1X95+1X16	6	1	6.8	49.2	1940
3X185+1X120+1X16	6	1	6.8	54.9	2410

ICE60502-Electrical Properties -ABC-IEC 60502 -With Street Lighting

NominalSize	Phase-AAC Conductor				Neutral/Messenger-AA AC Conductor			Street Lighting-AAC Conductor	
Phase + Neutral/ Messenger	Min. Wires No.	Max. DC Resis tance	Ampa city	Max. Volta ge Drop	Min. Wires No.	Max. DC Resist ance	Breaki ng load	Min. Wires No.	Max.D C Resist ance
Core x Section- area(mm ²)	n	ohm/ km	A	mV/A /m	n	Ohm/ km	kN	n	ohm/k m
3X25+1X25+1 X16	6	1.2	84	2.54	6	1.312	6.4	6	1.91
3X35+1X25+1 X16	6	0.868	104	1.84	6	1.312	6.4	6	1.91
3X50+1X35+1 X16	6	0.641	129	1.36	6	0.943	8.9	6	1.91
3X70+1X50+1 X16	12	0.443	167	0.95	6	0.693	12.1	6	1.91
3X95+1X70+1 X16	15	0.32	209	0.69	12	0.469	18	6	1.91
3X120+1X70+ 1X16	15	0.253	246	0.55	12	0.469	18	6	1.91
3X150+1X95+ 1X16	30	0.206	283	0.46	15	0.349	24.2	6	1.91
3X185+1X120 +1X16	30	0.164	332	0.37	15	0.273	30.8	6	1.91

ABC-AS/NZS 3560-1

Conductor		Max. Core diameter	Nominal insulation thickness	Cable diameter	Min. Bending Radius Cable	Cable mass Approx	Min. breaking load	Current rating	Max DC resistance at 20 °C
Nominal area mm ²	Nominal diam. mm	mm	mm	mm	mm	kg/100 m	kN	A	Ω/km
2 cores									
16	4.5-4.8	7.9	1.3	15.8	95	14	4.4	78	1.91
25	5.8-6.1	9.2	1.3	18.4	110	20	7	105	1.2
35	6.8-7.2	10.3	1.3	20.6	125	26	9.8	125	0.868
50	8.0-8.4	11.9	1.5	23.8	145	35	14	150	0.641
95	11.3-11.9	15.9	1.7	31.8	285	66	26.6	230	0.32
3 cores									
25	5.8-6.1	9.2	1.3	19.8	120	30	10.5	97	1.2
35	6.8-7.2	10.3	1.3	22.2	135	39	14.7	120	0.868
50	8.0-8.4	11.9	1.5	25.6	155	53	21	140	0.641
4 cores									
16	4.5-4.8	7.9	1.3	19.1	115	28	8.8	74	1.91
25	5.8-6.1	9.2	1.3	22.2	135	40	14	97	1.2
35	6.8-7.2	10.3	1.3	24.9	150	52	19.6	120	0.868
50	8.0-8.4	11.9	1.5	28.7	160	71	28	140	0.641
70	9.6-10.1	13.6	1.5	32.8	285	96	39.2	175	0.443
95	11.3-11.9	15.9	1.7	38.4	345	131	53.2	215	0.32
120	12.8-13.5	17.5	1.7	42.2	380	158	67.2	250	0.253
150	14.1-14.9	18.9	1.7	45.6	410	192	84	280	0.206

ABC-NFC 33-209

Nominal Size	Conductor Resistance	Min. Breaking Load	Amp.In air	O.D	AL Weight	CU Weight	Total Weight
mm ²	Ohm/km	kN	A	mm	kg/km		kg/km
2x10RM	3.08	1.5	38	12.8	58		93
4x10RM	3.08	1.5	38	15.4	116		183
2x16RM	1.91	2.3	72	14.8	93		129
2x16RM+2x1.5RE	1.910/12.100	2.3	72	14.8	93	29	176
4x16RM	1.91	2.3	72	17.8	186		257
4x16RM+2x1.5RE	1.910/12.100	2.3	72	17.8	186	29	304
2x25RM	1.2	3.8	107	18	145		202
2x25RM+2x1.5RE	1.200/12.100	3.8	107	18	145	29	249
4x25RM	1.2	3.8	107	21.7	290		404
4x25RM+2x1.5RE	1.200/12.100	3.8	107	21.7	290	29	451
2x35RM	0.868	5.2	132	20.8	203		269
2x35RM+2x1.5RE	0.868/12.100	5.2	132	20.8	203	29	316
4x35RM	0.868	5.2	132	25.1	406		539
4x35RM+2x1.5RE	0.868/12.100	5.2	132	25.1	406	29	586
2x50RM	0.641	7.6	165	23.4	290		352
2x50RM+2x1.5RE	0.641/12.100	7.6	165	23.4	290	29	399
1x54.6RM+3x25RM	0.630/1.200	3.8	107	21.7	376		507
1x54.6RM+3x25RM +1x16RM	0.630/1.200/1.910	3.8/2.3	107/72	24.3	423		573
1x54.6RM+3x25RM +2x16RM	0.630/1.200/1.910	3.8/2.3	107/72	29.7	467		639

1x54.6RM+3x25RM+3x16RM	0.630/1.200/1.910	3.8/2.3	107/72	31.1	516		705
1x54.6RM+3x35RM	0.630/0.868	5.2	132	25.1	463		615
1x54.6RM+3x35RM+1x16RM	0.630/0.868/1.910	5.2/2.3	132/72	28.1	510		680
1x54.6RM+3x35RM+2x16RM	0.630/0.868/1.910	5.2/2.3	132/72	34.3	556		748
1x54.6RM+3x35RM+3x16RM	0.630/0.868/1.910	5.2/2.3	132/72	35.9	603		814
1x54.6RM+3x35RM+1x25RM	0.630/0.868/1.200	5.2/3.8	132/107	28.1	536		714
1x54.6RM+3x50RM	0.630/0.641	7.6	165	28.2	594		741
1x54.6RM+3x50RM+1x16RM	0.630/0.641/1.910	7.6/2.3	165/72	31.6	640		806
1x54.6RM+3x50RM+2x16RM	0.630/0.641/1.910	7.6/2.3	165/72	38.6	687		875
1x54.6RM+3x50RM+3x16RM	0.630/0.641/1.910	7.6/2.3	165/72	40.4	733		940
1x54.6RM+3x50RM+1x25RM	0.630/0.641/1.200	7.6/3.8	165/107	31.6	666		841
1x54.6RM+3x70RM	0.630/0.443	10.2	205	33	768		950
1x54.6RM+3x70RM+1x16RM	0.630/0.443/1.910	10.2/2.3	205/72	37	914		1014
1x54.6RM+3x70RM+2x16RM	0.630/0.443/1.910	10.2/2.3	205/72	45.2	861		1083
1x54.6RM+3x70RM+3x16RM	0.630/0.443/1.910	10.2/2.3	205/72	47.3	907		1148
1x54.6RM+3x70RM+1x25RM	0.630/0.443/1.200	10.2/3.8	205/107	37	840		1048
1x54.6RM+3x70RM+2x25RM	0.630/0.443/1.200	10.2/3.8	205/107	45.2	913		1150
1x54.6RM+3x70RM+3x25RM	0.630/0.443/1.200	10.2/3.8	205/107	47.3	985		1250
1x54.6RM+3x95RM	0.630/0.320	13.5	240	37.4	985		1176
1x54.6RM+3x95RM+1x16RM	0.630/0.320/1.901	13.5/2.3	240/72	41.9	1032		1243