

Neutracen

Aluminum Multiplex Cable



Description

The Neutracen Multiplex are aluminum AAC, ACSR and AAAC type conductors; with insulation either thermoplastic PE or thermoset black crosslinked polyethylene (XLPE). The AAC, ACSR or AAAC are helically twisted in different counts over a messenger core either bare or insulated to form a duplex, triplex or tetraplex conductors.

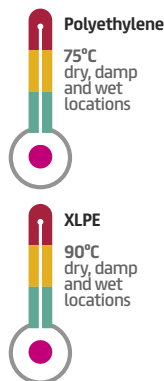
Standard Specifications

The Neutracen Multiplex conductors are built based on the following:

- Standards: **ASTM B230, B231, B232, B398, B399 y B498. ANSI / ICEA S-76-474 and S-95-658.**
- Certificate: **CIDET # 03533.**

Features

- The cables with thermoplastic UV Polyethylene (PE) are designed for 75°C max.
- The Multiplex Neutracen cables are designed with UV resistance thermoset cross-linked polyethylene (XLPE) insulation capable to operate at 90°C max temperature.



- The Neutracen is design for aerial circuits where the load is mainly carried by the messenger core cable, the core tensile capability depends on the type of conductor: AAC lower tensile and ACSR/AAAC higher tensile for longer spans.
- The ACSR cores are limited by the severe environmental corrosion conditions of high salinity, acidity and humidity. The AAAC is the recommended core option for severe conditions.
- The Neutracen multiplex have several permutations among cables types, insulation, cores and cables flexibility. They are identified with the cable code name.

Applications

- The Neutracen multiplex conductors are designed to connect aerial power distribution networks to final users, from the secondary network to the single user service meter.
- To connect secondary aerial power distribution circuits in long distance networks the supports distance will depend on the messenger core used.
- The AAAC or ACSR cables can be used to support additional circuit conductors.
- The Neutracen cables are design for external aerial applications, NOT allowed in breaker boxes. Aerial to duct transition join must be installed with correct fixtures.

Technical Information

Dimensions and nominal features

The conductor operating amperage is defined by the installation condition and operating temperatures identified. See Table 9 on Ampacities for Aluminum & ACSR Overhead Electrical Conductors issued by the Aluminum Association.

AAC Duplex												
Code	1350 Al Conductor						1350 Al Messenger or Neutral				Full Conductor	
	Gauge	Wires	Diameter		Insulation Thickness		Gauge	Wires	Diameter		Insulation Thickness	Weight
	AWG/kcmil	#	in	mm	in	mm	AWG/kcmil	#	in	mm	mm	kg/km
Collie	6	7	0,183	4,66	0,045	1,143	6	7	0,183	4,66	13,40	98
Spaniel	4	7	0,231	5,88	0,045	1,143	4	7	0,231	5,88	15,74	148
Doberman	2	7	0,292	7,42	0,045	1,143	2	7	0,292	7,42	18,68	255
Basset	1/0	7	0,369	9,36	0,060	1,524	1/0	7	0,369	9,36	23,89	362

Note: The values given may vary according to the manufacturing tolerances

AAAC Duplex												
Code	1350 Al Conductor						6201 Al Messenger or Neutral				Full Conductor	
	Gauge	Wires	Diameter		Insulation Thickness		Gauge	Wires	Diameter		Insulation Thickness	Weight
	AWG/kcmil	#	in	mm	in	mm	AWG/kcmil	#	in	mm	mm	kg/km
Vizla	6	7	0,183	4,66	0,045	1,143	30,58	7	0,198	5,04	13,40	104
Whippet	4	7	0,231	5,88	0,045	1,143	48,69	7	0,250	6,36	15,74	157
Schnauzer	2	7	0,292	7,42	0,045	1,143	77,47	7	0,316	8,02	18,68	241
Afghan	1/0	7	0,369	9,36	0,060	1,524	123,3	7	0,398	10,11	23,89	386

Note: The values given may vary according to the manufacturing tolerances

ACSR Duplex												
Code	Conductor Al 1350						ACSR Messenger or Neutral				Full Conductor	
	Gauge	Wires	Diameter		Insulation Thickness		Gauge	Wires	Diameter		Diameter	Weight
	AWG/kcmil	#	in	mm	in	mm	AWG/kcmil	#	in	mm	mm	kg/km
Shepherd	6	7	0,183	4,66	0,045	1,143	6	6/1	0,198	5,03	12,1	115
Terrier	4	7	0,231	5,88	0,045	1,143	4	6/1	0,250	6,35	14,63	175
Chow	2	7	0,292	7,42	0,045	1,143	2	6/1	0,316	8,01	17,85	268
Bloodhound	1/0	7	0,369	9,36	0,060	1,524	1/0	6/1	0,398	10,11	22,67	430

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AAC Triplex												
Code	1350 Al Conductor						1350 Al Messenger or Neutral				Full Conductor	
	Gauge	Wires	Diameter		Insulation Thickness		Gauge	Wires	Diameter		Diameter	Weight
	AWG/kcmil	#	in	mm	in	mm	AWG/kcmil	#	in	mm	mm	kg/km
Patella	6	7	0,183	4,66	0,045	1,143	6	7	0,183	4,66	15,27	159
Oyster	4	7	0,231	5,88	0,045	1,143	4	7	0,231	5,88	17,88	237
Clam	2	7	0,292	7,42	0,045	1,143	2	7	0,292	7,42	21,21	358
Murex	1/0	7	0,369	9,36	0,060	1,524	1/0	7	0,369	9,36	27,11	576
Nassa	2/0	7	0,414	10,51	0,060	1,524	2/0	7	0,414	10,51	29,64	710
Quahog	3/0	7	0,465	11,80	0,080	2,032	3/0	7	0,465	11,80	33,67	906
Coquina	4/0	7	0,522	13,25	0,060	1,524	4/0	7	0,522	13,25	35,55	1089
Purpura	1/0	19	0,372	9,46	0,060	1,524	1/0	7	0,369	9,36	27,37	570
Trophon	2/0	19	0,419	10,63	0,060	1,524	2/0	7	0,414	10,51	29,89	702
Ione	3/0	19	0,470	11,94	0,080	1,524	3/0	7	0,465	11,80	31,97	896
Apus	4/0	19	0,528	13,40	0,080	1,524	4/0	7	0,522	13,25	35,14	1105
Chiton	266,8	19	0,593	15,05	0,080	2,032	266,8	19	0,593	15,05	40,74	1364
Nannynose	336,4	19	0,665	16,90	0,080	2,032	336,4	19	0,665	16,90	44,76	1694

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AAAC Triplex												
Code	1350 Al Conductor						6201 Al Messenger or Neutral				Full Conductor	
	Gauge	Wires	Diameter		Insulation Thickness		Gauge	Wires	Wires		Wires	Weight
	AWG/kcmil	#	in	mm	in	mm	AWG/kcmil	#	in	mm	mm	kg/km
Hippa	6	7	0,183	4,66	0,045	1,143	30,58	7	0,198	5,04	15,27	162
Barnacles	4	7	0,231	5,88	0,045	1,143	48,69	7	0,250	6,36	17,88	247
Solaster	2	7	0,292	7,42	0,045	1,143	48,69	7	0,250	6,36	21,21	333
Lobster	2	7	0,292	7,42	0,060	1,524	77,47	7	0,316	8,02	22,94	398
Gammarus	1/0	7	0,369	9,36	0,060	1,524	123,3	7	0,398	10,11	27,11	601
Dungenese	2/0	7	0,414	10,51	0,060	1,524	155,4	7	0,447	11,35	29,64	741
Leda	1/0	19	0,372	9,46	0,060	1,524	123,3	7	0,398	10,11	27,37	592
Cyclops	2/0	19	0,419	10,63	0,060	1,524	155,4	7	0,447	11,35	29,89	733
Fulgur	3/0	19	0,470	11,94	0,060	1,524	123,3	7	0,398	10,11	32,70	810
Lepas	4/0	19	0,528	13,40	0,060	1,524	246,9	7	0,563	14,31	35,88	1150

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ACSR Triplex												
Code	1350 Al Conductor						ACSR Messenger or Neutral				Full Conductor	
	Gauge	Wires	Diameter		Insulation Thickness		Gauge	Wires	Diameter		Diameter	Weight
	AWG/kcmil	#	in	mm	in	mm	AWG/kcmil	#	in	mm	mm	kg/km
Voluta	6	7	0,183	4,66	0,045	1,143	6	6/1	0,198	5,03	15,27	170
Periwinkle	4	7	0,231	5,88	0,045	1,143	4	6/1	0,250	6,35	17,88	264
Cockle	2	7	0,292	7,42	0,045	1,143	4	6/1	0,250	6,35	21,21	351
Conch	2	7	0,292	7,42	0,045	1,143	2	6/1	0,316	8,01	21,21	401
Janthina	1/0	7	0,369	9,36	0,060	1,524	2	6/1	0,316	8,01	27,11	564
Neritina	1/0	7	0,369	9,36	0,060	1,524	1/0	6/1	0,398	10,11	27,11	644
Cenia	1/0	19	0,372	9,46	0,060	1,524	1/0	6/1	0,398	10,11	27,37	638
Clio	2/0	19	0,419	10,63	0,060	1,524	1	6/1	0,354	9,00	29,89	688
Mursia	3/0	19	0,470	11,94	0,060	1,524	1/0	6/1	0,398	10,11	32,70	978
Cerapus	4/0	19	0,528	13,40	0,060	1,524	2/0	6/1	0,447	11,35	35,88	1082

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The conductor operating amperage is defined by the installation condition and operating temperatures identified. See Table 11 on Ampacities for Aluminum & ACSR Overhead Electrical Conductors issued by the Aluminum Association.

AAC Quadruplex												
Code	1350 Al Conductor						1350 Al Messenger or Neutral				Full Conductor	
	Gauge	Wires	Diameter		Insulation Thickness		Gauge	Wires	Diameter		Diameter	Weight
	AWG/kcmil	#	in	mm	in	mm	AWG/kcmil	#	in	mm	mm	kg/km
Pinto	4	7	0,231	5,88	0,045	1,143	4	7	0,231	5,88	19,95	326
Mustang	2	7	0,292	7,42	0,045	1,143	2	7	0,292	7,42	23,67	491
Libyan	1/0	7	0,369	9,36	0,060	1,524	1/0	7	0,369	9,36	30,25	790
Orloff	2/0	7	0,414	10,51	0,060	1,524	2/0	7	0,414	10,51	33,07	973
Mongolian	3/0	7	0,465	11,80	0,060	1,524	3/0	7	0,465	11,80	36,13	1201
Singlefoot	4/0	7	0,522	13,25	0,080	1,524	4/0	7	0,522	13,25	39,67	1485

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AAAC Quadruplex												
Code	1350 Al Conductor						6201 Al Messenger or Neutral				Full Conductor	
	Gauge	Wires	Diameter		Insulation Thickness		Gauge	Wires	Diameter		Diameter	Weight
	AWG/kcmil	#	in	mm	in	mm	AWG/kcmil	#	in	mm	mm	kg/km
French-Coach	6	7	0,183	4,66	0,045	1,143	30,58	7	0,198	5,04	17,04	226
Arabian	4	7	0,231	5,88	0,045	1,143	48,69	7	0,250	6,36	19,95	336
Belgian	2	7	0,292	7,42	0,045	1,143	77,47	7	0,316	8,02	23,67	506
Shetland	1/0	19	0,372	9,46	0,060	1,524	123,3	7	0,398	10,11	30,53	806
Thoroughbred	2/0	19	0,419	10,63	0,060	1,524	155,4	7	0,447	11,35	33,35	992
Trotter	4/0	19	0,470	11,94	0,060	1,524	195,7	7	0,502	12,74	36,49	1224
Walking	4/0	19	0,528	13,40	0,060	1,524	246,9	7	0,563	14,31	40,03	1514

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ACSR Quadruplex												
Code	1350 Al Conductor						ACSR Messenger or Neutral				Full Conductor	
	Gauge	Wires	Diameter		Insulation Thickness		Gauge	Wires	Diameter		Diameter	Weight
	AWG/kcmil	#	in	mm	in	mm	AWG/kcmil	#	in	mm	mm	kg/km
Chola	6	7	0,183	4,66	0,045	1,143	6	6/1	0,198	5,03	17,04	237
Hackney	4	7	0,231	5,88	0,045	1,143	4	6/1	0,250	6,35	19,95	353
Palomino	2	7	0,292	7,42	0,045	1,143	2	6/1	0,316	8,01	23,67	534
Costena	1/0	19	0,372	9,46	0,060	1,524	1/0	6/1	0,398	10,11	30,53	849
Grullo	2/0	19	0,419	10,63	0,060	1,524	2/0	6/1	0,447	11,35	33,35	1047
Suffolk	3/0	19	0,470	11,94	0,060	1,524	3/0	6/1	0,502	12,75	36,49	1295
Appaloosa	4/0	19	0,528	13,40	0,060	1,524	4/0	6/1	0,563	14,30	40,03	1602

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