



Triplex Service Drop Cable

600V Triplex Service Drop Cable –AAC/ACSR/AAAC

SPECIFICATIONS AND STANDARDS

- ASTM B-230:** Aluminum Wire, 1350-H19 for Electrical Purposes.
- ASTM B231:** Concentric Lay-Stranded Aluminum 1350 Conductors.
- ASTM B232:** Specification for Concentric-Lay-Stranded Aluminum Conductors, Coated Steel Reinforced (ACSR).
- ASTM B399:** Specification for Concentric-Lay-Stranded Aluminum Alloy 6201-T81 Conductors.
- ASTM B-901:** Compressed Round Stranded Aluminum Conductors Using Single Input Wire.
- Duplex service drop cable meets or exceeds all applicable requirements of **ANSI/ ICEA S-76-474.**



CONSTRUCTION:

Triplex service drop Cable is consist of **Two insulated phase conductor twisted around a bare neutral conductor.**

- 1. Phase Conductor:** The phase conductor is aluminum alloy 1350-H19 hard-drawn, compressed concentric-lay-stranded.
- 2. Insulation Material:** The standard insulation on the phase conductor is black low-density cross-linked polyethylene (XLPE), The XLPE insulation meets the requirements of ANSI/ICEA S-76-474-2004 (Standard for Neutral-Supported Power Cable Assemblies with Weather-Resistant Extruded Insulation Rated 600 Volts).
- 3. Bare Neutral Conductor:**
The All-aluminum Stranded Conductors are :
 - Class A 1350-H19 (AAC) hard-drawn, concentric-lay-stranded
 - Class AA (ACSR) Aluminum conductors Steel reinforced, concentric-lay-stranded
 - Class A 6201-T81 Alloy (AAAC), concentric-lay-stranded
- 4. Assembly:** Two insulated phase conductors are twisted around the bare neutral conductor with a right-hand lay length of 25 to 60 times the diameter of one phase conductor.

APPLICATIONS

Triplex service drop cable is used for delivers 3-wire single phase power from secondary power lines or pole-mounted transformers to service entrance conductors, It also may be used as pole line secondary with service splices at the pole or mid-span. Their use should be limited to circuits not exceeding 600 volts phase-to-phase and a 90°C normal conductor temperature.



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Triplex Service Drop Cable manufactured to ASTM / ICEA:

Code Word	Phase Conductors			Bare Neutral			Weight per 1000 ft. (lbs)		Rating (AMPS)	
	Size AWG	Strand	Insulation Thickness (MLS)	Size AWG	Strand	Breaking Strength (lbs)	XLPE	PE	XLPE	PE
AAC- Bare Neutral Messenger										
Haiotis	6	Solid	45	6	7	563	102.5	98.8	85	70
Patella	6	7/w	45	6	7	563	104.0	101.6	85	70
Fusus	4	Solid	45	4	7	881	151.9	147.6	110	90
Oyster	4	7/w	45	4	7	881	154.0	151.7	110	90
Clam	2	7/w	45	2	7	1,350	232.0	228.0	150	115
Murex	1/0	7/w	1/0	1/0	7	1,990	374.0	367.0	200	155
Purpura	1/0	19/w	1/0	1/0	7	1,990	368.0	362.0	200	155
Nassa	2/0	7/w	2/0	2/0	7	2,510	461.0	453.0	230	180
Melita	3/0	19/w	3/0	3/0	19	3,310	585.2	562.9	260	205
Portunus	4/0	19/w	4/0	4/0	19	4,020	693.0	684.0	300	235
Nannynose	336.4	19/w	336.4	336.4	19	6,146	1,111.0	1,096.0	380	290
ACSR – Neutral Messenger										
Paludina	6	Solid	45	6	6/1	1,190	114	113	85	70
Voluta	6	7/w	45	6	6/1	1,190	115	112	85	70
Whelk	4	Solid	45	4	6/1	1,860	163	161	110	90
Periwinkle	4	7/w	45	4	6/1	1,860	172	169	110	90
Conch	2	7/w	45	2	6/1	2,850	262	257	150	115
Neritina	1/0	7/w	60	1/0	6/1	4,380	420	414	200	115
Cenia	1/0	19/w	60	1/0	6/1	4,380	414	408	200	115
Runcina	2/0	7/w	60	2/0	6/1	5,310	519	512	230	180
Triton	2/0	19/w	60	2/0	6/1	5,310	511	505	230	180
Cherrystone	3/0	7/w	60	3/0	6/1	6,620	656	643	260	205
Mursia	3/0	19/w	60	3/0	6/1	6,620	633	626	260	205
Razor	4/0	7/w	60	4/0	6/1	8,350	814	799	300	235
Zuzara	4/0	19/w	60	4/0	6/1	8,350	785	777	300	235
Limpet	336.4	19/w	80	336.4	18/1	8,680	1,160	1,147	300	290



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ACSR – Reduced Neutral Messenger										
Scallop	4	Solid	45	6	6/1	1,190	142	139	110	90
Strombus	4	7/w	45	6	6/1	1,190	151	148	110	90
Cockle	2	7/w	45	4	6/1	1,860	228	224	150	115
Janthina	1/0	7/w	60	2	6/1	2,850	367	360	200	155
Ranella	1/0	19/w	60	2	6/1	2,850	361	356	200	155
Cavolinia	2/0	7/w	60	1	6/1	3,550	452	444	230	180
Clio	2/0	19/w	60	1	6/1	3,550	444	437	230	180
Sanddollar	3/0	7/w	60	1/0	6/1	4,380	570	557	260	205
Aega	3/0	19/w	60	1/0	6/1	4,380	565	552	260	205
Cutlefish	4/0	7/w	60	2/0	6/1	5,310	706	691	300	235
Cerapus	4/0	19/w	60	2/0	6/1	5,310	678	670	300	235
Cowry	336.4	19/w	80	4/0	6/1	8,350	1,135	1,093	380	290
AAAC – 6201 Alloy Neutral Messenger										
Minex	6	Solid	45	6	7	1,110	106.6	102.9	85	70
Hippa	6	7/w	45	6	7	1,110	107.0	105.7	85	70
Prawn	4	Solid	45	4	7	1,760	158.4	154.1	110	90
Barnacles	4	7/w	45	4	7	1,760	160.0	157.0	110	90
Shrimp	2	7/w	45	2	7	2,800	243.0	238.0	150	115
Gammarus	1/0	7/w	60	1/0	7	4,460	390.0	384.0	200	155
Leda	1/0	19/w	60	1/0	7	4,460	384.0	378.0	200	155
Dungenese	2/0	7/w	60	2/0	7	5,390	481.0	474.0	230	180
Cyclops	2/0	19/w	60	2/0	7	5,390	473.0	467.0	230	180
Flustra	3/0	19/w	60	3/0	7	6,790	596.0	589.1	260	205
Lepas	4/0	19/w	60	4/0	7	8,560	725.0	716.0	300	235
AAAC – 6201 Alloy Reduced Neutral Messenger										
Artemia	4	Solid	45	6	7	1,110	134.0	132.0	110	90
Crab	4	7/w	45	6	7	1,110	144.0	141.2	110	90
Solaster	2	7/w	45	4	7	1,760	216.0	212.6	150	115
Sandcrab	1/0	7/w	60	2	7	2,800	348.0	341.0	200	155
Echinus	1/0	19/w	60	2	7	2,800	342.0	336.0	200	155
Crayfish	2/0	7/w	60	1	7	3,530	452.6	422.5	230	180



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Sipho	2/0	19/w	60	1	7	3,530	441.0	422.5	230	180
Fulgar	3/0	19/w	60	1/0	7	4,460	525.0	518.0	260	205
Arca	4/0	19/w	60	2/0	7	5,360	640.0	632.0	300	235

*Code words for XLPE insulated products are formed by adding "/XLPE" to the conventional code words above (e.g.-Haiotis/XLPE).

+Conductor temperature of 90°C for XLPE, 75°C for PE; ambient temperature of 40°C; emissivity 0.9; 2 ft./sec. wind in sun.