CITY OF TACOMA

Tacoma Power – Transmission and Distribution

ADDENDUM NO. 1 **DATE:** October 20, 2020

REVISIONS TO:
Request for Bids Specification No. PT20-0289F
Overhead and Underground Secondary Triplex and Quadruplex Cable

NOTICE TO ALL BIDDERS:

This addendum is issued to clarify, revise, add to or delete from, the original specification documents for the above project. This addendum, as integrated with the original specification documents, shall form the specification documents. The noted revisions shall take precedence over previously issued specification documents and shall become part of this contract.

REVISIONS TO THE TECHNICAL PROVISIONS:

Substitution Requests: The attached substitutions are approved and will be accepted as equivalents bids.

NOTE: Acknowledge receipt of this addendum by initialing the corresponding space as indicated on the signature page. Vendors who have already submitted their bid/proposal may contact the Purchasing Division at 253-502-8468 and request return of their bid/proposal for acknowledgment and re-submittal. Or, a letter acknowledging receipt of this addendum may be submitted in an envelope marked Request for Bids Specification No. PT20-0289F Addendum No. 1. The City reserves the right to reject any and all bids, including, in certain circumstances, for failure to appropriately acknowledge this addendum.

cc: Joe Parris / Management Analyst III

APPENDIX #1 – SUBSTITUTION REQUEST FORM

Prospective bidders may request the use of substitute materials below.

All requests must be submitted electronically, via e-mail to shefley@cityoftacoma.org no later than ten (10) business days prior to the submittal deadline.

Manufacturer/Model: CME Wire and Cable

Manufacturer Contact Information

Name/Title: Adam Labbe

Phone Number: 480-747-7174

E-Mail: adam.labbe@cmewire.com

Describe the differences between the proposed substitution and specified material:

None

Please attach documentation from manufacturer that certifies the material meets all the criteria outlined in Technical Specifications of this bid specification.

Contractor Name: General Pacific, Inc.

Preparer Name/Title: Elisabeth Guffey

Mailing Address: 22414 NE Townsend Way

Phone Number: 503-907-2870

E-Mail: eguffey@generalpacific.com

Signature: Elisabeth Guffey

TACOMA POWER
TACOMA PUBLIC UTILITIES

Material Specification PT20-0289F
Overhead and Underground Secondary Triplex & Quadruplex Cable

INTERNAL USE ONLY

☒ Approved as Substitute*

☐ Rejected – Material Not Acceptable

☐ Rejected – Inadequate Information

☐ Rejected – Request Received After Deadline

**Subject to review and approval of submittal documents*

Remarks

Reviewer Name/Title: Eric Dodgen / Power Engineer IV

Signature: _____ Date: October 19, 2020

for Eric Dodgen

CME wire and cable

A Viakable Company

CME's References by Product Family

USER NAME	ADDRESS/PHONE	CONTACT	BARE CU	BARE AL (ACSR-AAC)	LOW VOLTAGE	Medium Voltage	
						EPR	TR-XLPE
AVANGRID	East Avenue, 4th floor Rochester, NY, 14649 PH: 585-771-4867	**Marylin Martinez** Lead Analyst marilyn.martinez@avangrid.com					
MidAmerican Energy	4299 Northwest Urbandale, IA 50322 PH: 515-242-3052	**Leo Alvarez** Sr. Supply Chain Analyst LAlvarez@midamerican.com					
EXELON (PECO)	1060 West Swedesford Rd Berwyn, PA PH:610-648-7703	**Robert Hughes** Procurement Specialist Robert.Hughes2@exeloncorp.com					
Centerpoint Energy	4500 South Shaver-A Houston, TX 77034 PH:713-945-6182	**Laura Rupert** Sourcing Specialist laura.rupert@centerpointenergy.com					
UGI Utilities	1730 Murray Street Forty Fort, PA 18704 PH:610-796-3546	**John Polek** Supply Chain jpolek@ugi.com					
CPS Energy	145 Navarro St San Antonio, TX. 78205 PH:210-353-4849	**Jerry Rodriguez** Standards Specialist jerodriguez@cpsenergy.com					
LA-DWP	111 N. Hope Street Los Angeles, CA 90012 PH:213-367-4631	**BASSAM ABOU-CHAKRA** Manager-Power System Bassam.Abou-Chakra@ladwp.com					
EPB	10 West M.L. King Blvd Chattanooga, TN 37402 PH:423-648-1372	**Melinda Lowe** Purchasing Agent lowemm@epb.net					
SMUD	9774 KIEFER BLVD SACRAMENTO, CA 95827 PH:916-732-5643	**JAMES KING** Purchasing Agent James.King@smud.org					

495 Horizon Drive NE, Ste. 100
Suwanee, GA 30024
Phone: 770-623-0001
www.cmewire.com

Service Drop Aluminum

XLPE or PE Insulated 600 V

CME wire and cable
A Viakable Company

Features

RUS accepted.

Extruded ridges for easy Phase identification.

Application

For overhead distribution of electrical energy, such as a supply power, from pole-mounted transformer to the user's service head where connection to the service entrance cable is made.

Also for Temporary services and street light installations.

Standards

ICEA S-76-474

Neutral-Supported Power Cable Assemblies with Weather-Resistant Extruded Insulation rated 600 V.

Specifications

Maximum operating voltage:

- 600 volts

Maximum conductor operation temperatures:

Wet and dry locations

PE

- Normal: 75 °C
- Emergency: 95 °C
- Short Circuit: 150 °C

XLPE

- Normal: 90 °C
- Emergency: 130 °C
- Short Circuit: 250 °C

Engineering Information

1. Conductor: Aluminum alloy 1350-H19, solid conductor per ASTM B230, compressed Class B stranding, or Class A stranding or unilay-compressed per ASTM B231, or combination unilay (19 wires) per ASTM B786.

Separator: A suitable opaque tape, as required.

2. Insulation: Black thermoset cross-linked polyethylene (XLPE) thermoplastic High Density polyethylene (HDPE).

3. Neutral: Bare aluminum alloy 1350-H19 classes A stranding per ASTM B231 or ACSR stranding per ASTM B232, or ACSR/AW per ASTM B549 or Aluminum Alloy 6201 conductors, per ASTM B399.

On request, cover neutral.

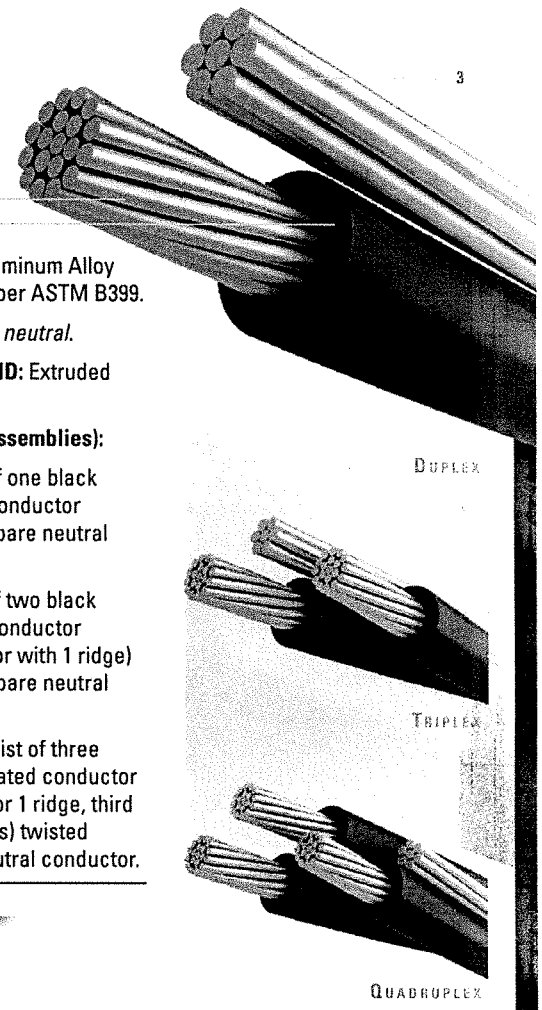
Conductor Phase ID: Extruded ridges.

Configurations (Assemblies):

Duplex: Consist of one black phase insulated conductor twisted around a bare neutral conductor.

Triplex: Consist of two black phase insulated conductor (Second conductor with 1 ridge) twisted around a bare neutral conductor.

Quadruplex: Consist of three black phase insulated conductor (Second conductor 1 ridge, third conductor 2 ridges) twisted around a bare neutral conductor.



Technical Data

Duplex

Code Word	Phase Conductor			Cable OD	Neutral Messenger			Weight	
	Size AWG or kcmil	Number of Strands	Insulation Thickness mil	in	Size AWG or kcmil	Number of Strands	Rated Strength lb	PE lb/kft	XLPE lb/kft
AAC Conductor and Neutral Messenger									
Pekingese	6	1	45	0.26	6	7	563	63	63
Collie	6	7	45	0.28	6	7	563	66	66
Cocker	6	7	60	0.31	6	7	563	73	72
Dachshund	4	1	45	0.30	4	7	881	94	94
Spaniel	4	7	45	0.33	4	7	881	99	99
Cairn	4	7	60	0.36	4	7	881	106	106
Doberman	2	7	45	0.39	2	7	1350	151	151
Malemute	1/0	19	60	0.50	1/0	7	1990	241	240

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. Other sizes available upon request.
Ampacities: Refer to beginning of section.

Technical Data *continued*

Duplex

Code Word	Phase Conductor			Cable OD	Neutral Messenger			Weight	
	Size AWG or kcmil	Number of Strands	Insulation Thickness mil	in	Size AWG or kcmil	Number of Strands	Rated Strength lb	PE lb/kft	XLPE lb/kft
AAC Conductor and ACSR Neutral Messenger									
Setter	6	1	45	0.26	6	6/1	1190	75	74
Shepherd	6	7	45	0.28	6	6/1	1190	78	78
Retriever	6	7	60	0.31	6	6/1	1190	84	84
Eskimo	4	1	45	0.30	4	6/1	1860	113	113
Terrier	4	7	45	0.33	4	6/1	1860	118	118
Yorkshire	4	7	60	0.36	4	6/1	1860	125	125
Chow	2	7	45	0.39	2	6/1	2850	182	181
Bull	1/0	19	60	0.50	1/0	6/1	4380	289	288
AAC Conductor and AAAC Neutral Messenger									
Chihuahua	6	1	45	0.26	6	7	1110	67	67
Vizsla	6	7	45	0.28	6	7	1110	71	70
Harrier	4	1	45	0.30	4	7	1760	102	101
Whippet	4	7	45	0.33	4	7	1760	106	106
Schnauzer	2	7	45	0.39	2	7	2800	163	162
Afghan	1/0	7	60	0.50	1/0	7	4270	261	260
Heeler	1/0	19	60	0.50	1/0	7	4270	259	258

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. Other sizes available upon request.
Ampacities: Refer to beginning of section.

Triplex

Code Word	Phase Conductor			Cable OD	Neutral Messenger			Weight	
	Size AWG or kcmil	Number of Strands	Insulation Thickness mil	in	Size AWG or kcmil	Number of Strands	Rated Strength lb	PE lb/kft	XLPE lb/kft
AAC Conductor and Neutral Messenger									
Haliotis	6	1	45	0.26	6	7	563	101	100
Patella	6	7	45	0.28	6	7	563	108	107
Fusus	4	1	45	0.30	4	7	881	149	149
Oyster	4	7	45	0.33	4	7	881	159	158
Clam	2	7	45	0.39	2	7	1350	240	238
Snail	1/0	7	60	0.50	2	7	1350	387	385
Murex	1/0	7	60	0.50	1/0	7	1990	387	385
Purpura	1/0	19	60	0.50	1/0	7	1990	382	380
Nassa	2/0	7	60	0.55	2/0	7	2510	477	474
Trophon	2/0	19	60	0.55	2/0	7	2510	471	469
Melita	3/0	19	60	0.60	3/0	19	3040	581	579
Portunus	4/0	19	60	0.65	4/0	19	3830	721	718
Nannynose	336.4	19	80	0.83	336.4	19	6150	1162	1157

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. Other sizes available upon request.
Ampacities: Refer to beginning of section.

Technical Data *continued*

Triplex

Code Word	Phase Conductor			Cable OD	Neutral Messenger			Weight	
	Size AWG or kcmil	Number of Strands	Insulation Thickness mil	in	Size AWG or kcmil	Number of Strands	Rated Strength lb	PE lb/kft	XLPE lb/kft
AAC Conductor and ACSR Neutral Messenger									
Paludina	6	1	45	0.26	6	6/1	1190	112	112
Voluta	6	7	45	0.28	6	6/1	1190	119	119
Bolma	6	7	60	0.31	6	6/1	1190	132	131
Scallop	4	1	45	0.30	6	6/1	1190	147	146
Strombus	4	7	45	0.33	6	6/1	1190	156	155
Whelk	4	1	45	0.30	4	6/1	1860	168	168
Periwinkle	4	7	45	0.33	4	6/1	1860	178	177
Calma	4	7	60	0.36	4	6/1	1860	192	191
Cockle	2	7	45	0.39	4	6/1	1860	235	234
Conch	2	7	45	0.39	2	6/1	2850	270	269
Gebia	2	7	60	0.42	4	6/1	1860	252	250
Janthina	1/0	7	60	0.50	2	6/1	2850	380	378
Ranella	1/0	19	60	0.50	2	6/1	2850	375	373
Neritina	1/0	7	60	0.50	1/0	6/1	4380	435	433
Cenia	1/0	19	60	0.50	1/0	6/1	4380	430	428
Cavolinia	2/0	7	60	0.55	1	6/1	3550	468	465
Clio	2/0	19	60	0.55	1	6/1	3550	462	460
Runcina	2/0	7	60	0.55	2/0	6/1	5300	537	535
Triton	2/0	19	60	0.55	2/0	6/1	5300	531	529
Aega	3/0	19	60	0.60	1/0	6/1	4380	570	568
Mursia	3/0	19	60	0.60	3/0	6/1	6620	658	655
Cerapus	4/0	19	60	0.65	2/0	6/1	5300	705	702
Zuzara	4/0	19	60	0.65	4/0	6/1	8350	815	813
Dosinia	266.8	19	80	0.76	266.8	18/1	6880	982	977
Cowry	336.4	19	80	0.83	4/0	6/1	8350	1137	1132
Limpet	336.4	19	80	0.83	336.4	18/1	8680	1213	1208
AAC Conductor and AAAC Neutral Messenger									
Minex	6	1	45	0.26	6	7	1110	105	104
Hippa	6	7	45	0.28	6	7	1110	112	111
Artemia	4	1	45	0.30	6	7	1110	139	138
Crab	4	1	45	0.33	6	7	1110	143	142
Prawn	4	1	45	0.30	4	7	1760	156	156
Barnacles	4	7	45	0.33	4	7	1760	166	165
Solaster	2	7	45	0.39	4	7	1760	223	222
Shrimp	2	7	45	0.39	2	7	2800	251	250
Lobster	2	7	60	0.42	2	7	2800	268	266
Sandcrab	1/0	7	60	0.50	2	7	2800	361	359
Echinus	1/0	19	60	0.50	2	7	2800	356	354
Gammarus	1/0	7	60	0.50	1/0	7	4270	405	403
Leda	1/0	19	60	0.50	1/0	7	4270	400	398
Dungeness	2/0	7	60	0.55	2/0	7	5390	499	497
Cyclops	2/0	19	60	0.55	2/0	7	5390	493	497
Fulgur	3/0	19	60	0.60	1/0	7	4270	540	537
Flustra	3/0	19	60	0.60	3/0	7	6790	609	607
Arca	4/0	19	60	0.65	2/0	7	5390	667	665
Lepas	4/0	19	60	0.65	4/0	7	8560	755	752

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. Other sizes available upon request.

Ampacities: Refer to beginning of section.

Technical Data *continued*

Quadruplex

Code Word	Phase Conductor			Cable OD	Neutral Messenger			Weight	
	Size AWG or kcmil	Number of Strands	Insulation Thickness mils	in	Size AWG or kcmil	Number of Strands	Rated Strength lb	PE lb/kft	XLPE lb/kft
AAC Conductor and Neutral Messenger									
Quarter	6	1	45	0.26	6	7	563	138	137
Clydesdale	4	1	45	0.30	4	7	881	204	203
Pinto	4	7	45	0.33	4	7	881	219	217
Mustang	2	7	45	0.39	2	7	1350	328	326
Criollo	1/0	19	60	0.50	1/0	7	1990	524	520
Percheron	2/0	19	60	0.55	2/0	7	2510	643	640
Hanoverian	3/0	19	60	0.60	3/0	19	3040	792	788
Singlefoot	4/0	7	60	0.65	4/0	19	3830	993	988
Oldenburg	4/0	19	60	0.65	4/0	19	3830	979	974
Lippizaner	336.4	19	80	0.83	336.4	19	6150	1582	1574
AAC Conductor and ACSR Neutral Messenger									
Morochuca	6	1	45	0.26	6	6/1	1190	150	149
Chola	6	7	45	0.28	6	6/1	1190	161	160
Morgan	4	1	45	0.30	4	6/1	1860	223	222
Hackney	4	7	45	0.33	4	6/1	1860	238	236
Yearling	2	7	45	0.39	4	6/1	1860	324	322
Palomino	2	7	45	0.39	2	6/1	2850	358	356
Colt	1/0	19	60	0.50	2	6/1	2850	517	513
Standardbred	1/0	7	60	0.50	1/0	6/1	4380	523	520
Costena	1/0	19	60	0.50	1/0	6/1	4380	572	568
Haflinger	2/0	19	60	0.55	2/0	6/1	5300	665	662
Grullo	2/0	19	60	0.55	1/0	6/1	4380	704	700
Claiming	3/0	19	60	0.60	3/0	6/1	6620	781	777
Suffolk	3/0	19	60	0.60	1/0	6/1	4380	869	865
Toric	4/0	19	60	0.65	4/0	6/1	8350	926	922
Filly	4/0	19	60	0.65	2/0	6/1	5300	965	960
Appaloosa	4/0	19	60	0.65	4/0	6/1	8350	1075	1070
Gelding	336.4	19	80	0.83	4/0	6/1	8350	1557	1549
Bronco	336.4	19	80	0.83	336.4	18/1	8680	1633	1625
AAC Conductor and AAAC Neutral Messenger									
Bay	6	1	45	0.26	6	7	1110	142	141
French Coach	6	7	45	0.28	6	7	1110	153	152
German Coach	4	1	45	0.30	4	7	1760	211	210
Arabian	4	7	45	0.33	4	7	1760	226	224
Belgian	2	7	45	0.39	2	7	2800	339	337
Shetland	1/0	19	60	0.50	1/0	7	4270	541	538
Thoroughbred	2/0	19	60	0.55	2/0	7	5390	666	662
Trotter	3/0	19	60	0.60	3/0	7	6790	821	817
Walking	4/0	19	60	0.65	4/0	7	8560	1014	1010

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. Other sizes available upon request.
Ampacities: Refer to beginning of section.

Secondary URD Aluminum

XLPE Insulated, 600 V

CME wire and cable
A Viakable Company

Features

RUS accepted.

Single conductors are UL Listed as Type USE-2.

Excellent heat, ozone, oil and chemical resistance.

Resistant to tear and abrasion.

Suitable for direct burial.

AA-8000 Series aluminum alloy conductor where increased flexibility is required.

Application

Used for secondary distribution and underground service at 600 V or less.

May be used in ducts or direct burial.

Standards

ICEA S-105-692

600 V Single Layer Thermoset Insulated Utility Underground Distribution Cable.

UL 854

Service-Entrance Cables.

Specifications

Maximum operating voltage:

- 600 V

Maximum conductor operation temperatures:

- 90 °C wet and dry

Engineering Information

1. Conductor: Aluminum alloy 1350-H19, compressed Class B stranding, or unilay-compressed per ASTM B231.

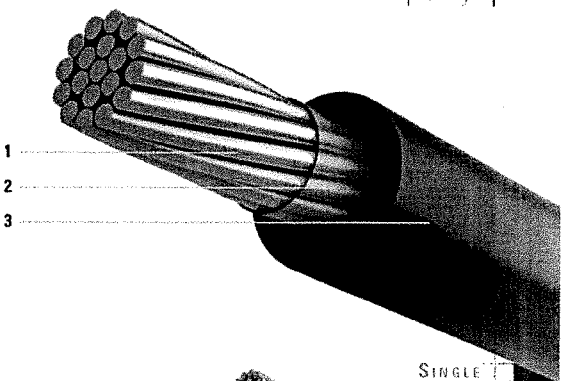
On request, AA-8000 series aluminum alloy per ASTM B800 and B801 or copper conductors.

2. Separator: A suitable opaque tape, as required.

3. Insulation:

Phase conductor: Black thermoset cross-linked polyethylene (XLPE).

Neutral conductor: Black thermoset cross-linked polyethylene (XLPE), with three yellow extruded stripes.



Conductor Phase ID: Ink printed.

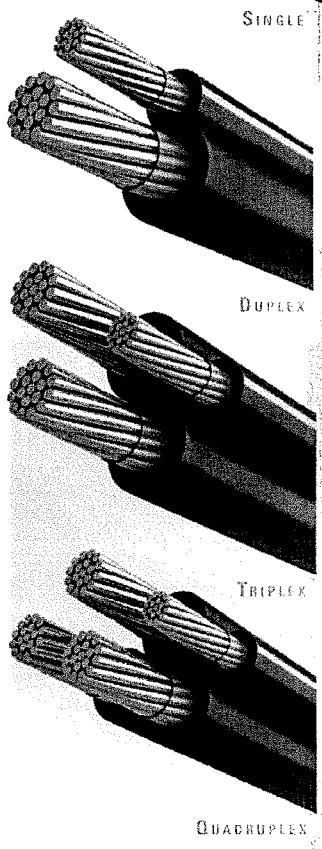
Configurations

Single: One black phase insulated conductor.

Duplex: One black phase insulated conductor and one neutral insulated conductor cabled together.

Triplex: Two black phase insulated conductors (A & B) and one neutral insulated conductor cabled together.

Quadruplex: Three black phase insulated conductors (A, B & C) and one neutral insulated conductor cabled together.



Secondary URD Cable – Aluminum

Technical Data

Single

Code Word	Phase Conductor				XLPE Insulation	
	Size AWG or kcmil	Number of Strands	Insulation Thickness mil	Cable OD mil	Code Word Suffix	Net Weight lb/kft
Princeton	6	7	60	0.31	/XLP	45
Mercer	4	7	60	0.35	/XLP	65
Clemson	2	7	60	0.41	/XLP	94
Kenyon	1	19	80	0.49	/XLP	125
Harvard	1/0	19	80	0.53	/XLP	150
Yale	2/0	19	80	0.57	/XLP	182
Tufts	3/0	19	80	0.62	/XLP	221
Beloit	4/0	19	80	0.68	/XLP	271
Hofstra	250	37	95	0.76	/XLP	323
Gonzaga	300	37	95	0.81	/XLP	377
Rutgers	350	37	95	0.86	/XLP	431
Dartmouth	400	37	95	0.91	/XLP	485
Brown	450	37	95	0.95	/XLP	539
Emory	500	37	95	0.99	/XLP	592
Duke	600	61	110	1.10	/XLP	711
Furman	700	61	110	1.17	/XLP	816
Sewanee	750	61	110	1.20	/XLP	870
Fordham	1000	61	110	1.35	/XLP	1129

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.
Ampacities: Refer to beginning of section.

Duplex

Code Word	Phase Conductor			Neutral Conductor			Cable OD		XLPE Insulation	
	Size AWG or kcmil	Number of Strands	Insulation Thickness mils	Size AWG or kcmil	Number of Strands	Insulation Thickness mil	Single Phase in	Complete Cable in	Code Word Suffix	Net Weight lb/kft
Alcorn	8	1	60	8	1	60	0.25	0.50	/XLP/EYS	62.2
Claflin	6	7	60	6	7	60	0.31	0.61	/XLP/EYS	92.8
Delgado	4	7	60	4	7	60	0.35	0.70	/XLP/EYS	131.7
Cedarcrest	2	7	60	4	7	60	0.41	0.82	/XLP/EYS	161.4
Everett	2	7	60	2	7	60	0.41	0.82	/XLP/EYS	191.2
Findlay	2/0	19	80	2/0	19	80	0.57	1.15	/XLP/EYS	372.0
Hanover	4/0	19	80	4/0	19	80	0.68	1.36	/XLP/EYS	552.1
Glenville	350	37	95	350	37	95	0.86	1.72	/XLP/EYS	880.2

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.
Ampacities: Refer to beginning of section.

Technical Data *continued*

Triplex

Code Word	Phase Conductor			Neutral Conductor			Cable OD		XLPE Insulation	
	Size AWG or kcmil	Number of Strands	Insulation Thickness mil	Size AWG or kcmil	Number of Strands	Insulation Thickness mil	Single Phase in	Complete Cable in	Code Word Suffix	Net Weight lb/kft
Erskine	6	7	60	6	7	60	0.31	0.66	/XLP/EYS	139
Vassar	4	7	60	4	7	60	0.35	0.76	/XLP/EYS	198
Stephens	2	7	60	4	7	60	0.41	0.88	/XLP/EYS	257
Ramapo	2	7	60	2	7	60	0.41	0.88	/XLP/EYS	287
Grossmont	1	19	80	1	19	80	0.49	1.06	/XLP/EYS	383
Brenau	1/0	19	80	2	7	60	0.53	1.14	/XLP/EYS	402
Bergen	1/0	19	80	1/0	19	80	0.53	1.14	/XLP/EYS	460
Fisk	2/0	19	80	2	7	60	0.57	1.24	/XLP/EYS	468
Converse	2/0	19	80	1	19	80	0.57	1.24	/XLP/EYS	500
Shaw	2/0	19	80	1/0	19	80	0.57	1.24	/XLP/EYS	525
Hunter	2/0	19	80	2/0	19	80	0.57	1.24	/XLP/EYS	558
Calvert	3/0	19	80	2	7	60	0.62	1.34	/XLP/EYS	547
Chase	3/0	19	80	1	19	80	0.62	1.34	/XLP/EYS	579
Hollins	3/0	19	80	1/0	19	80	0.62	1.34	/XLP/EYS	605
Rockland	3/0	19	80	3/0	19	80	0.62	1.34	/XLP/EYS	677
Coburn	4/0	19	80	1	19	80	0.68	1.47	/XLP/EYS	680
Molloy	4/0	19	80	1/0	19	80	0.68	1.47	/XLP/EYS	705
Sweetbriar	4/0	19	80	2/0	19	80	0.68	1.47	/XLP/EYS	738
Monmouth	4/0	19	80	4/0	19	80	0.68	1.47	/XLP/EYS	828
Aquinas	250	37	95	2/0	19	80	0.76	1.63	/XLP/EYS	844
Pratt	250	37	95	3/0	19	80	0.76	1.63	/XLP/EYS	884
Yeshiva	250	37	95	250	37	95	0.76	1.63	/XLP/EYS	987
Allen	300	37	95	2/0	19	80	0.81	1.75	/XLP/EYS	956
Greenville	350	37	95	1/0	19	80	0.86	1.85	/XLP/EYS	1034
Gloucester	350	37	95	3/0	19	80	0.86	1.85	/XLP/EYS	1106
Wesleyan	350	37	95	4/0	19	80	0.86	1.85	/XLP/EYS	1156
Newark	350	37	95	350	37	95	0.86	1.85	/XLP/EYS	1320
Old Dominion	500	37	95	4/0	19	80	0.99	2.13	/XLP/EYS	1483
Holyoke	500	37	95	300	37	95	0.99	2.13	/XLP/EYS	1592
Rider	500	37	95	350	37	95	0.99	2.13	/XLP/EYS	1647
Westchester	500	37	95	500	37	95	0.99	2.13	/XLP/EYS	1811
Villanova	750	61	110	350	37	95	1.20	2.58	/XLP/EYS	2215
Voorhees	750	61	110	450	37	95	1.20	2.58	/XLP/EYS	2324
Fairfield	750	61	110	500	37	95	1.20	2.58	/XLP/EYS	2379
Seton Hall	750	61	110	750	61	110	1.20	2.58	/XLP/EYS	2662

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.
Ampacities: Refer to beginning of section.

Technical Data *continued*

Quadruplex

Code Word	Phase Conductor			Neutral Conductor			Cable OD		XLPE Insulation	
	Size AWG or kcmil	Number of Strands	Insulation Thickness mil	Size AWG or kcmil	Number of Strands	Insulation Thickness mil	Single Phase in	Complete Cable in	Code Word Suffix	Net Weight lb/kft
Tulsa	4	7	60	4	7	60	0.35	0.85	/XLP/EYS	263
Miami	2	7	60	6	7	60	0.41	0.99	/XLP/EYS	333
Dyke	2	7	60	4	7	60	0.41	0.99	/XLP/EYS	353
Wittenberg	2	7	60	2	7	60	0.41	0.99	/XLP/EYS	382
Notre Dame	1/0	19	80	2	7	60	0.53	1.28	/XLP/EYS	556
Purdue	1/0	19	80	1/0	19	80	0.53	1.28	/XLP/EYS	614
Syracuse	2/0	19	80	1	19	80	0.57	1.39	/XLP/EYS	686
Lafayette	2/0	19	80	2/0	19	80	0.57	1.39	/XLP/EYS	744
Swarthmore	3/0	19	80	1/0	19	80	0.62	1.51	/XLP/EYS	831
Davidson	3/0	19	80	3/0	19	80	0.62	1.51	/XLP/EYS	903
Mc Pherson	4/0	19	80	2	7	60	0.68	1.64	/XLP/EYS	924
Doane	4/0	19	80	1/0	19	80	0.68	1.64	/XLP/EYS	981
Wake Forest	4/0	19	80	2/0	19	80	0.68	1.64	/XLP/EYS	1014
Earlham	4/0	19	80	4/0	19	80	0.68	1.64	/XLP/EYS	1104
Rust	250	37	95	3/0	19	80	0.76	1.83	/XLP/EYS	1213
Palomar	250	37	95	250	37	95	0.76	1.83	/XLP/EYS	1316
Slippery Rock	350	37	95	4/0	19	80	0.86	2.08	/XLP/EYS	1596
Niagara	350	37	95	350	37	95	0.86	2.08	/XLP/EYS	1760
Morehouse	500	37	95	300	37	95	0.99	2.39	/XLP/EYS	2196
Wofford	500	37	95	350	37	95	0.99	2.39	/XLP/EYS	2251
Marshall	500	37	95	500	37	95	0.99	2.39	/XLP/EYS	2415
Westminster	750	61	110	350	37	95	1.20	2.89	/XLP/EYS	3102
Windham	750	61	110	500	37	95	1.20	2.89	/XLP/EYS	3266
Tabor	750	61	110	750	61	110	1.20	2.89	/XLP/EYS	3550

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.
Ampacities: Refer to beginning of section.

VIAKON
CONDUCTORES MONTERREY

Power Cable Electrical Test Report

CME wire and cable

MATERIAL DESCRIPTION: E98969 (UL) CME WIRE AND CABLE 2/0 AWG AL XLP 600V TYPE USE (UL) 2012 SWEETBRIAR

EQUIPMENT

Alta tensión corriente alterna Hipotronics Modelo 970
de 1 a 50 kV c.a. Megohmetro .5mW a 20T / 50 a 500V c.d.
PUENTE KELVIN BIDDLE .0001 a 999.99W

DATE: October 31, 2012
CUSTOMER: OMNI CABLE CORP
ORDER No. 76659-2
INSPECTED BY: IVAN GARCIA
NAME/SIGNATURE
APPROVED BY: SANTOS MARTINEZ
NAME/SIGNATURE

MOF W866-230
SPEC: ICEA S-105-692

SHEET 1 OF 1

APPROVED BY ELECTRICAL TEST LABORATORY

					DC Conductor Resistance		Insulation Resistance		High Voltage Test	
					Readings	Ω / km	Readings	MΩ/1000 ft	AC Kv	DC kV
					Ω	@ - °C	MΩ	@ 15.6 °C	7.5 kV	- kV
					Temperature	-	Temperature	1236	5 min	- min
REEL	LENGTH	Visual	Continuity		- °C	Maximum	26 °C	Minimum	Dry ☐	
No.	Ft	Inspection	Conductor(s)	Shield(s)	C.F. =	Specified Value	F.C. = 2.06	Specified Value	Water ■	1 h
2	5246	OK	OK	-	-	-	6758	73032	OK	-
							6744	72881	OK	-
							6806	73551	OK	-

VIAKON
CONDUCTORES MONTERREY

CME wire and cable

O.F: W866-230
DATE: 2012 / October / 31
ORDER : 76659-2
ADDRES : 2 HAGERTY BLVD WEST
CHESTER ,PA 19382

CUSTOMER: OMNI CABLE CORP.
DESCRIP.: 600 V XLPE BLACK SIZE 4/0 AWG + 2/0 AWG EYS URD AL
SPECIF: ICEA S-105-692
REPORT CM 172

INSPECTED BY: Mario Alonso L .
APPROVED BY: Oscar Ledezma C.
PAGE: 1/1

ACCEPTED
inspector #: 97
QUALITY

INSULATED PRODUCTS INSPECTION REPORT-XLPE EXTRUSION

CABLE:	REQMT	MEASURED RESULTS SEQUENCE NUMBER 001		MEASURED RESULTS SEQUENCE NUMBER 001	
NOMINAL DIAMETER (mils)	498				
MEASURED DIAMETER (mils)		496,9			
XLP INSUL. BLACK					
MINIMUM POINT THICKNESS (mils)	76,0	80,0			
MINIMUM AVERAGE WALL THICKNESS (mils)	82,0	86,5			
DIAMETER OVER INSULATION (min / max) (mils	658/666	860/864			
INSULATION TEST DATA					
TENSILE AND ELONGATION					
UNAGED TENSILE min. (PSI)	1800	2362			
UNAGED ELONG. min. (%)	250	517			
AGED 168 h @ 121°C IN AIR OVEN					
MIN. RETAINED TENSILE (%)	75	92			
MIN. RETAINED ELONG. (%)	75	97			
HOT CREEP 150 °C - ELONGATION max. (%)	175	78,9			
HOT CREEP - SET max. (%)	10	1,6			

THIS DATA IS TRANSFERRED FROM OTHER ORDERS RUN ADJACENT TO AND CONTINUOUS WITH THIS ORDER AS PRESCRIBED BY ICEA .
TEST RESULTS FOR THIS MANUFACTURING ONLY

TEST EQUIPMENT. TEMP: : 22,4 °C R.H.: 39 % FVEP 02 008 Rev.2
DYNAMOMETER "CHANTILLON" I-0426 , I-1366 ACC:(+/- 1 lb),AIR OVEN " BLUE M." I-0097,I-0098 ACC:(+/- 3°C) , MICROSCOPE " MITUTOYO " I-1176 ACC:(+/- .0003 Inch.)
VERNIER MITUTOYO V3-028 ; MICROMETER M3-038 ; SCIEN TEMP I-0107 ; OIL IMMERSION " BLUE M "I-0095 ; RESISTOMAT 2316 I-1175 , FLUKE I-0119 .

CME wire and cable
A Viakable Company

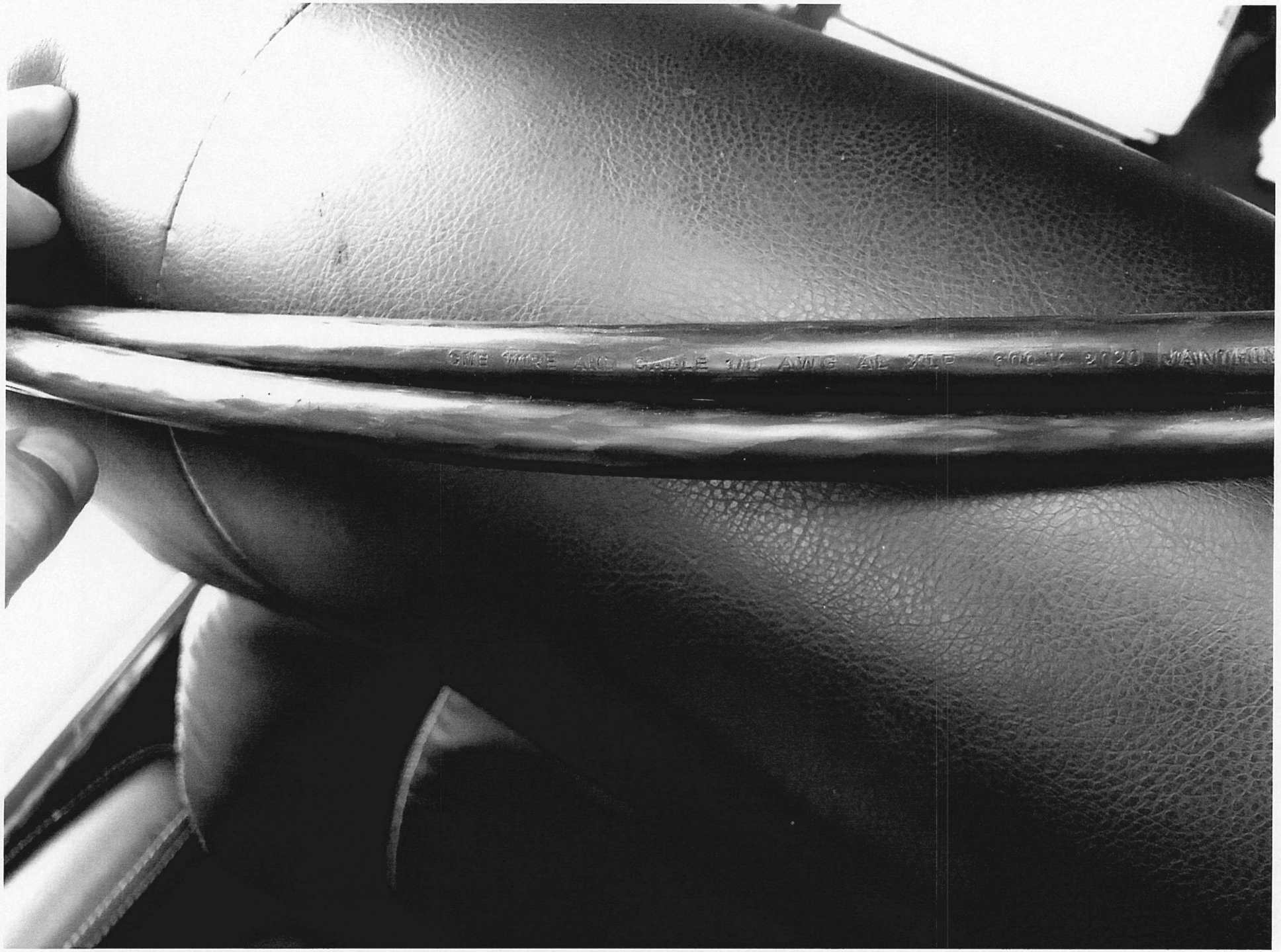
QUALIFICATION TEST DATA SUMMARY FOR INSULATED ALUMINUM CABLES - 600V URD Type USE-2

Description: AL XLPE 90°C phase 2/0 AWG + Neutral 1 AWG 600 VOLTS
CC: 13352
Standard: ICEA-S-105-692
Date: Oct-05
Tests Frequency: Production Tests (Routine Test): Every Reel
Qualification Tests below: Once a Year or When Compound is Changed

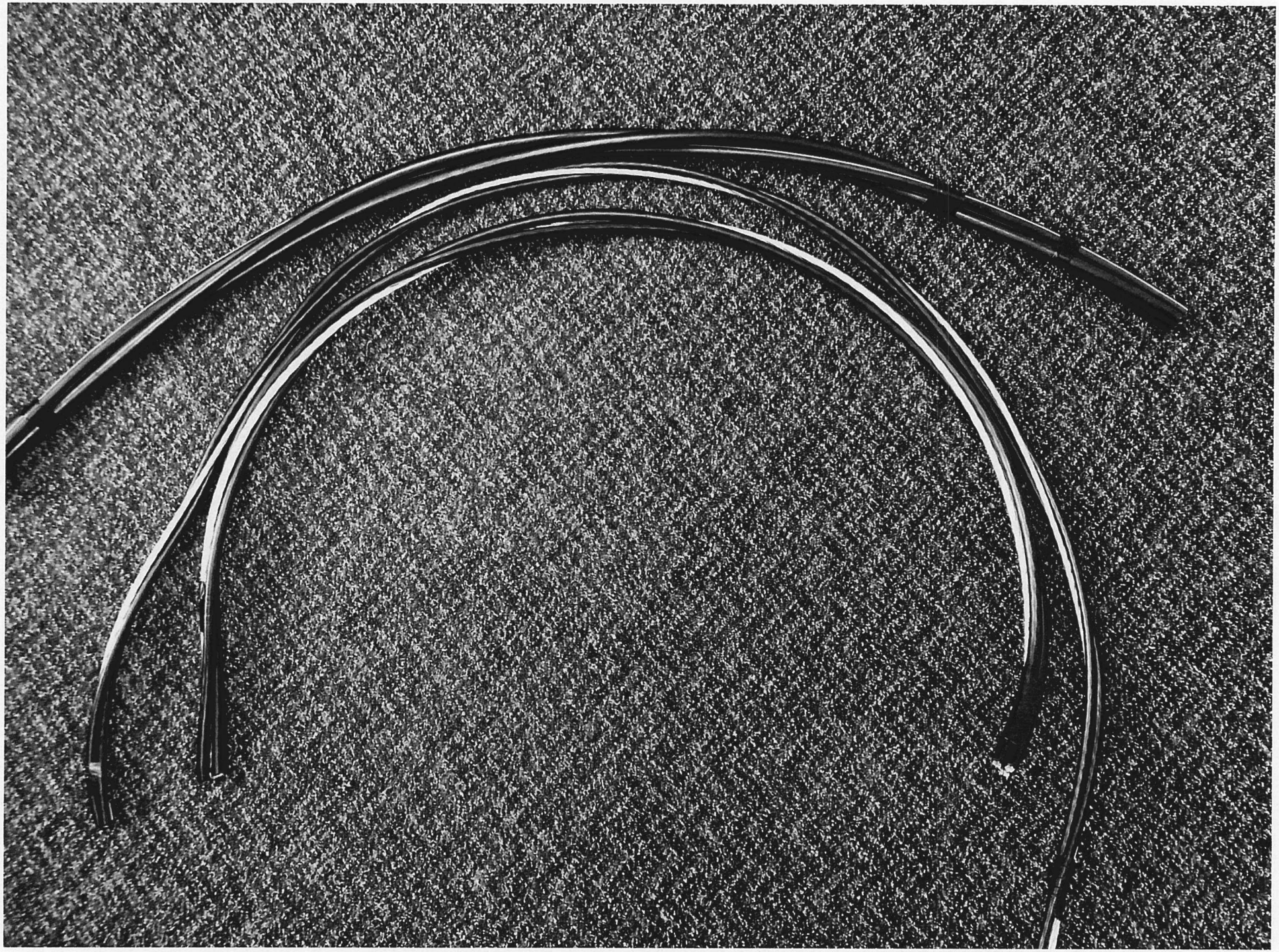
			PHASE CONDUCTOR		NEUTRAL CONDUCTOR	
ITEM	TEST	UNIT	REQUIRED	OBTAINED	REQUIRED	OBTAINED
CONDUCTOR:						
1	Conductor Material	---	AL 1350	AL 1350	AL 1350	AL 1350
2	Size	AWG	2/0	2/0	1	1
3	Nominal Diameter	mils	406	408	322	325
4	Nominal Cross Section	cmil	133100	133100	83690	83690
5	Stranding Class	---	---	Compressed	---	Compressed
6	D.C. Electrical Resistance at 20°C (Nom)	ohm/kft	0.1302	0.1300	0.2072	0.2070
INSULATION:						
7	Material (*)	---	XLPE	XLPE	XLPE	XLPE
8	Average Thickness	mils	80	87	80	85
9	Nominal Diameter	mils		0.575		0.495
14	Dielectric Constant at 60 Hz and 80 volts/mil Maximun (table 6-1) (*)		6.0	2.011	6.0	2.011
15	Max. Increases in capacitance from 1 to 14 days (table 6-1) (*)	%	3.0	2.09	3.0	2.09
16	Max. Increases in capacitance from 7 to 14 days (table 6-1) (*)	%	1.5	0.316	1.5	0.316
17	Long-time insulation resistance in water (*)	Mohm-kft	0.162	0.747	-	-
18	Crush Resistance (Min) (*)	Lb	1000	OK	1000	OK
ELECTRICAL TEST CONDUCTOR:						
19	Insulation Resistance at 15.6°C (Min)	Mohm-kft	1509	292400	1870	526600
20	Voltage Withstand	kV AC	4.0	OK	4.0	OK

* Qualification tests according to 6.1.2, 6.1.2.1and 6.4.1 of ICEA S-105-692

Cockie



Janthina



Sweetbriar

APPENDIX #1 – SUBSTITUTION REQUEST FORM

Prospective bidders may request the use of substitute materials below.

All requests must be submitted electronically, via e-mail to shefley@cityoftacoma.org no later than ten (10) business days prior to the submittal deadline.

Manufacturer/Model: AMERICAN WIRE GROUP/ALL ITEMS

Manufacturer Contact Information

Name/Title: MICHAEL BLAHA/DIRECTOR UTILITY SALES

Phone Number: 954-455-3050

E-Mail: SALES@BUYAWG.COM

Describe the differences between the proposed substitution and specified material:

No difference in materials - proposing alternate manufacturer for all items.

Samples are being delivered to the requested address, spec sheets are enclosed with this form, as well as with the formal bid response.

Please attach documentation from manufacturer that certifies the material meets all the criteria outlined in Technical Specifications of this bid specification.

Contractor Name: AMERICAN WIRE GROUP

Preparer Name/Title: MICHAEL BLAHA, DIRECTOR UTILITY SALES

Mailing Address: 2980 NE 207 Street Suite PH Miami, FL 33180

Phone Number: 954-455-3050

E-Mail: SALES@BUYAWG.COM

Signature: MICHAEL BLAHA Digitally signed by MICHAEL BLAHA
DN: cn=MICHAEL BLAHA, o=Director of Utility Sales, ou=AMERICAN WIRE GROUP, email=MBLAHA@BUYAWG.COM, c=US
Date: 2020.10.16 15:13:40 -04'00'

INTERNAL USE ONLY

☒ Approved as Substitute*

☐ Rejected – Material Not Acceptable

☐ Rejected – Inadequate Information

☐ Rejected – Request Received After Deadline

**Subject to review and approval of submittal documents*

Remarks

Reviewer Name/Title: Eric Dodgen / Power Engineer IV

Signature: _____ Date: October 20, 2020

for Eric Dodgen

American Wire Group
2980 NE 207th Street, PH
Miami, Florida 33180
Toll-Free: 800.342.7215
Phone: 954.455.3050 • Fax: 954.455.9886
Email: sales@buyawg.com

Triplex Service Drop Aluminum Conductors - ACSR Messenger

Applications

To supply power from the utility's lines to the consumer's weatherhead. For service at 600 volts or less (phase to phase) at a conductor temperature of 75 ºC maximum for polyethylene Insulation or 90 ºC maximum for crosslinked insulation.

Construction

Concentric strand or compressed 1350-H19 conductor, polyethylene or crosslinked polyethylene insulation, concentric strand ACSR neutral messenger.

Standards

- B-230 Aluminum Wire 1350-H19 for Electrical Purposes.
- B-231 Aluminum Conductors, Concentric-Lay-Stranded
- B-232 Aluminum Conductors, Concentric-Lay-Stranded, Coated Steel Reinforced (ACSR).
- B-309 Concentric-Lay-Stranded 6201-T81 Aluminum Alloy Conductors.
- B-498 Zinc-Coated Steel Core Wire for Aluminum Conductors, Steel Reinforced (ACSR).
- Triplex Service Drop cable meets or exceeds all applicable requirements of ANSI/ICEA body S-76-474.

1

Item #	Phase Conductor Size/AWG	Phase Conductor Stranding	Phase Conductor Insulation Thickness	Bare Neutral Messenger Size/AWG	Bare Neutral Messenger Stranding	Bare Neutral Messenger Breaking Strength	Weight Per MFT XLP	Weight Per MFT Poly	Ampacity XLP	Ampacity Poly
Paludina	6	Solid	45 mls	6	6/1	1190 Lbs	114 Lbs	113 Lbs	85 Amps	70 Amps
Voluta	6	7/w	45 mls	6	6/1	1190 Lbs	120 Lbs	113 Lbs	85 Amps	70 Amps
Scallop	4	Solid	45 mls	6	6/1	1190 Lbs	148 Lbs	144 Lbs	115 Amps	90 Amps
Strombus	4	7/w	45 mls	6	6/1	1190 Lbs	158 Lbs	148 Lbs	115 Amps	90 Amps
Whelk	4	Solid	45 mls	4	6/1	1860 Lbs	169 Lbs	165 Lbs	115 Amps	90 Amps

Item #	Phase Conductor Size/AWG	Phase Conductor Stranding	Phase Conductor Insulation Thickness	Bare Neutral Messenger Size/AWG	Bare Neutral Messenger Stranding	Bare Neutral Messenger Breaking Strength	Weight Per MFT XLP	Weight Per MFT Poly	Ampacity XLP	Ampacity Poly
Periwinkle	4	7/w	45 mls	4	6/1	1860 Lbs	176 Lbs	172 Lbs	115 Amps	90 Amps
Cockle	2	7/w	45 mls	4	6/1	1860 Lbs	233 Lbs	227 Lbs	150 Amps	120 Amps
Conch	2	7/w	45 mls	2	6/1	2850 Lbs	267 Lbs	261 Lbs	150 Amps	120 Amps
Janthina	1/0	7/w	60 mls	2	6/1	2850 Lbs	376 Lbs	365 Lbs	205 Amps	160 Amps
Ranella	1/0	19/w	60 mls	2	6/1	2850 Lbs	372 Lbs	362 Lbs	205 Amps	160 Amps
Neritina	1/0	7/w	60 mls	1/0	6/1	4380 Lbs	530 Lbs	419 Lbs	205 Amps	160 Amps
Cenia	1/0	19/w	60 mls	1/0	6/1	4380 Lbs	426 Lbs	416 Lbs	205 Amps	160 Amps
Cavolinia	2/0	7/w	60 mls	1	6/1	3550 Lbs	462 Lbs	451 Lbs	235 Amps	185 Amps
Clio	2/0	19/w	60 mls	1	6/1	3550 Lbs	458 Lbs	446 Lbs	235 Amps	185 Amps
Runcina	2/0	7/w	60 mls	2/0	6/1	5310 Lbs	530 Lbs	519 Lbs	235 Amps	185 Amps
Triton	2/0	19/w	60 mls	2/0	6/1	5310 Lbs	526 Lbs	514 Lbs	235 Amps	185 Amps
Sanddollar	3/0	7/w	60 mls	1/0	6/1	4380 Lbs	570 Lbs	557 Lbs	275 Amps	215 Amps
Aega	3/0	19/w	60 mls	1/0	6/1	4380 Lbs	565 Lbs	552 Lbs	275 Amps	215 Amps
Cherrystone	3/0	7/w	60 mls	3/0	6/1	6620 Lbs	656 Lbs	643 Lbs	250 Amps	200 Amps
Mursia	3/0	19/w	60 mls	3/0	6/1	6620 Lbs	650 Lbs	638 Lbs	250 Amps	200 Amps
Cuttlefish	4/0	7/w	60 mls	2/0	6/1	5310 Lbs	706 Lbs	691 Lbs	315 Amps	245 Amps
Cerapus	4/0	19/w	60 mls	2/0	6/1	5310 Lbs	699 Lbs	684 Lbs	315 Amps	245 Amps
Razor	4/0	7/w	60 mls	4/0	6/1	8350 Lbs	814 Lbs	799 Lbs	315 Amps	245 Amps
Zuzara	4/0	19/w	60 mls	4/0	6/1	8350 Lbs	805 Lbs	792 Lbs	315 Amps	245 Amps
Cowry	336.4	19/w	80 mls	4/0	6/1	8350 Lbs	1135 Lbs	1093 Lbs	420 Amps	325 Amps
Limpet	336.4	19/w	80 mls	336.4	18/1	8680 Lbs	1209 Lbs	1167 Lbs	420 Amps	325 Amps

American Wire Group
2980 NE 207th Street, PH
Miami, Florida 33180
Toll-Free: 800.342.7215
Phone: 954.455.3050 • Fax: 954.455.9886
Email: sales@buyawg.com

Quadruplex Service Drop Aluminum Conductors - ACSR Neutral-Messenger

Applications

Used to supply 3 phase power, usually from a pole- mounted transformer, to the user's service head where connection to the service entrance cable is made. To be used at voltages of 600 volts or less phase to phase and at conductor temperatures not to exceed 75 ºC for polyethylene insulated conductors or 90 ºC for crosslinked polyethylene (XLP) insulated conductors.

Construction

Conductors are concentrically stranded, compressed 1350-H19 aluminum. Insulated with either polyethylene or XLP crosslinked polyethylene. Neutral messengers are concentrically stranded ACSR. One conductor is manufactured with an extruded ridge for phase identification.

Standards

- B-230 Aluminum Wire, 1350-H19 for Electrical Purposes.
- B-231 Aluminum conductors, Concentric-Lay-Stranded.
- B-232 Aluminum Conductors, Concentric- Lay-Stranded, Coated Steel Reinforced (ACSR).
- B-399 Concentric-Lay-Stranded, 6201-T81 Aluminum Alloy Conductors.
- B498 Zinc-Coated Steel Core Wire for Aluminum Conductors, Steel Reinforced (ACSR).
- Quadruplex Service Drop cable meets or exceeds all applicable requirements of ANSI/ICEA S-76-474.

Note :

Designated sizes are : ACSR 6/1 diameter equivalent and AAC with equivalent resistivity per ASTMB-399 for 6201.Conductor temperature of 90 ºC for XLR 75 ºC for Poly; ambient temperatures of 40 ºC emissivity 0.9; 2ft./sec/wind in sun. To determine current ampacity by conductor size, please consult The National Electric Code, latest edition.

1

Item #	Phase Conductor Size/AWG	Phase Conductor Stranding	Phase Conductor Insulation Thickness	Bare Neutral Messenger Size/AWG	Bare Neutral Messenger Stranding	Bare Neutral Messenger Breaking Strength	Weight Per MFT XLP	Weight Per MFT Poly	Ampacity XLP	Ampacity Poly
Morochuca	6	Solid	45 mls	6	6/1	1190 Lbs	152 Lbs	147.4 Lbs	75 Amps	60 Amps

Item #	Phase Conductor Size/AWG	Phase Conductor Stranding	Phase Conductor Insulation Thickness	Bare Neutral Messenger Size/AWG	Bare Neutral Messenger Stranding	Bare Neutral Messenger Breaking Strength	Weight Per MFT XLP	Weight Per MFT Poly	Ampacity XLP	Ampacity Poly
Chola	6	7/w	45 mls	6	6/1	1190 Lbs	162 Lbs	151.7 Lbs	75 Amps	60 Amps
Morgan	4	Solid	45 mls	4	6/1	1860 Lbs	226 Lbs	220 Lbs	100 Amps	80 Amps
Hackney	4	7/w	45 mls	4	6/1	1860 Lbs	241 Lbs	226.1 Lbs	100 Amps	80 Amps
Palomino	2	7/w	45 mls	2	6/1	2850 Lbs	362 Lbs	342.6 Lbs	135 Amps	105 Amps
Costena	1/0	19/w	60 mls	1/0	6/1	4380 Lbs	575 Lbs	550.6 Lbs	180 Amps	140 Amps
Grullo	2/0	19/w	60 mls	2/0	6/1	5310 Lbs	707 Lbs	678.7 Lbs	205 Amps	160 Amps
Suffolk	3/0	19/w	60 mls	3/0	6/1	6620 Lbs	872 Lbs	838.9 Lbs	235 Amps	185 Amps
Appaloosa	4/0	19/w	60 mls	4/0	6/1	8350 Lbs	1079 Lbs	1039.2 Lbs	275 Amps	210 Amps
Bronco	336.4	19/w	80 mls	336.4	18/1	8580 Lbs	1613 Lbs	1568.2 Lbs	370 Amps	280 Amps
Gelding	336.4	19/w	80 mls	4/0	6/1	8350 Lbs	1548 Lbs	1494.3 Lbs	370 Amps	280 Amps

American Wire Group
2980 NE 207th Street, PH
Miami, Florida 33180
Toll-Free: 800.342.7215
Phone: 954.455.3050 • Fax: 954.455.9886
Email: sales@buyawg.com

Triplex Conductor 600V Secondary Type URD Cable - Aluminum Conductor

Applications
Used for secondary distribution and underground service at 600 volts or less, either direct burial or in ducts.

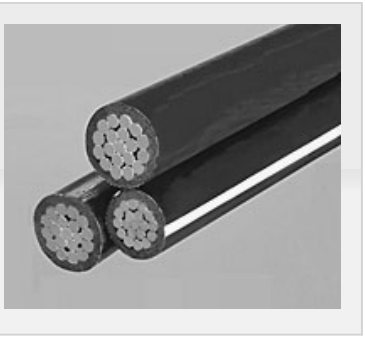
Construction
Conductors are stranded or compressed 1350-H19 aluminum conductors, cross-linked polyethylene insulation. Insulated conductors surface printed, neutral triple yellow striped. Two phase and one neutral conductor twisted together (LH lay) to produce the triplex cable configuration, or parallel if so specified. Black neutrals may be specified if desired.

Standards
Secondary URD triplex conductor 600V cable meets or exceeds the following ASTM specifications.

- B-230 Aluminum Wire, 1350-H19 for Electrical Purposes.
- B-231 Aluminum 1350 conductors, Concentric-Lay-Stranded.
- B-786 19 Wire combination unilay-stranded Aluminum Conductors for subsequent insulation.
- B-901 Compressed round stranded Aluminum Conductors using single input wire construction.
- Secondary UD triplex conductor 600V cable meets or exceeds all applicable requirements of ICEA S-105-692.
- "USE-2" per UL 854 available upon request.

Options
- Cable in Duct (CIC)
- Abrasion Resistant

Ampacity
90ºC conductor temperature, 20ºC ambient, RHO 50, 100% load factor for three conductors triplex with neutral carrying only unbalanced load. Technical data for cable with solid black neutral is identical to yellow extruded stripe data. All yellow extruded stripe cable is XLP insulation. To determine correct ampacity by conductor size, please consult the National Electric Code, the latest edition.



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Item #	Phase Conductor Size/AWG	Phase Conductor Stranding	Phase Conductor Insulation Thickness	Neutral Size AWG	Neutral Stranding	Neutral Insulation Thickness	Single Phase Conductor	Outside Diameter	Weight Per MFT	Ampacity Direct Burial	Ampacity In Duct
Erskine	6	7/w	60 mls	6	7/w	60 mls	.299 Inches	.646 Inches	143 Lbs	95 Amps	70 Amps
Vassar	4	7/w	60 mls	4	7/w	60 mls	.345 Inches	.754 Inches	203 Lbs	125 Amps	90 Amps

Item #	Phase Conductor Size/AWG	Phase Conductor Stranding	Phase Conductor Insulation Thickness	Neutral Size AWG	Neutral Stranding	Neutral Insulation Thickness	Single Phase Conductor	Outside Diameter	Weight Per MFT	Ampacity Direct Burial	Ampacity In Duct
Stephens	2	7/w	60 mls	4	7/w	60 mls	.403 Inches	.842 Inches	264 Lbs	165 Amps	120 Amps
Ramapo	2	7/w	60 mls	2	7/w	60 mls	.403 Inches	.874 Inches	294 Lbs	165 Amps	120 Amps
Brenau	1/0	19/w	80 mls	2	7/w	60 mls	.522 Inches	1.064 Inches	408 Lbs	215 Amps	160 Amps
Bergen	1/0	19/w	80 mls	1/0	19/w	80 mls	.522 Inches	1.133 Inches	465 Lbs	215 Amps	160 Amps
Converse	2/0	19/w	80 mls	1	19/w	80 mls	.566 Inches	1.174 Inches	502 Lbs	245 Amps	160 Amps
Hunter	2/0	19/w	80 mls	2/0	19/w	80 mls	.566 Inches	1.228 Inches	560 Lbs	245 Amps	180 Amps
Hollins	3/0	19/w	80 mls	1/0	19/w	80 mls	.616 Inches	1.276 Inches	606 Lbs	280 Amps	205 Amps
Rockland	3/0	19/w	80 mls	3/0	19/w	80 mls	.616 Inches	1.336 Inches	678 Lbs	280 Amps	205 Amps
Sweetbriar	4/0	19/w	80 mls	2/0	19/w	80 mls	.672 Inches	1.389 Inches	739 Lbs	315 Amps	240 Amps
Monmouth	4/0	19/w	80 mls	4/0	19/w	80 mls	.672 Inches	1.457 Inches	828 Lbs	315 Amps	240 Amps
Pratt	250	37/w	95 mls	3/0	19/w	80 mls	.748 Inches	1.538 Inches	893 Lbs	345 Amps	265 Amps
Wesleyan	350	37/w	95 mls	4/0	19/w	80 mls	.851 Inches	1.736 Inches	1166 Lbs	415 Amps	320 Amps
Holyoke	500	37/w	95 mls	300	37/w	95 mls	.979 Inches	2.008 Inches	1607 Lbs	495 Amps	395 Amps
Rider	500	37/w	95 mls	350	37/w	95 mls	.979 Inches	2.035 Inches	1663 Lbs	495 Amps	395 Amps
Fairfield	750	61/w	110 mls	500	37/w	95 mls	1.188 Inches	2.0860 Inches	2304 Lbs	615 Amps	525 Amps

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Quadruplex Conductor 600V Secondary Type URD Cable Aluminum Conductor

Applications
Directly buried or installed in ducts for 600 volt secondary distribution.

Construction
Concentric stranded or compressed 1350-H19 aluminum conductors, cross-linked polyethylene insulation. Insulated conductors surface printed, neutral triple yellow striped. Three phase and one neutral conductor cabled together (LH lay) or parallel if so specified. Black neutrals may be specified is desired.

Standards
Secondary URD quadruplex conductor 600V cable meets or exceeds the following ASTM specifications.

- B-230 Aluminum Wire, 1350-H19 for Electrical Purposes.
- B-231 Aluminum 1350 conductors, Concentric-Lay-Stranded.
- B-786 19 Wire combination unilay-stranded Aluminum Conductors for subsequent insulation.
- B-901 Compressed round stranded Aluminum Conductors using single input wire construction.
- Secondary UD quadruplex conductor 600V cable meets or exceeds all applicable requirements of ICEA S-105-692.
- "USE-2" per UL 854 available upon request

Options

- Cable in Duct (CIC)
- Abrasion Resistant

Ampacity
To determine correct ampacity by conductor size, please consult the National Electric Code, the latest edition.

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Item #	Phase Conductor Size/AWG	Phase Conductor Stranding	Phase Conductor Insulation Thickness	Neutral Size AWG	Neutral Stranding	Neutral Insulation Thickness	Single Phase Conductor	Outside Diameter	Weight Per MFT	Ampacity Direct Burial	Ampacity In Duct
Tulsa	4	7	60 mls	4	7	60 mls	.345 Inches	.833 Inches	258 Lbs	119 Amps	85 Amps
Dyke	2	7	60 mls	4	7	60 mls	.403 Inches	.938 Inches	346 Lbs	153 Amps	115 Amps
Wittenberg	2	7	60 mls	2	7	60 mls	.403 Inches	.973 Inches	375 Lbs	153 Amps	115 Amps
Notre Dame	1/0	19	80 mls	2	7	60 mls	.522 Inches	1.188 Inches	541 Lbs	198 Amps	150 Amps

Item #	Phase Conductor Size/AWG	Phase Conductor Stranding	Phase Conductor Insulation Thickness	Neutral Size AWG	Neutral Stranding	Neutral Insulation Thickness	Single Phase Conductor	Outside Diameter	Weight Per MFT	Ampacity Direct Burial	Ampacity In Duct
							Inches	Inches			
Purdue	1/0	19	80 mls	1/0	19	80 mls	.522 Inches	1.260 Inches	596 Lbs	198 Amps	150 Amps
Syracuse	2/0	19	80 mls	1	19	80 mls	.566 Inches	1.316 Inches	664 Lbs	225 Amps	170 Amps
Lafayette	2/0	19	80 mls	2/0	19	80 mls	.566 Inches	1.367 Inches	720 Lbs	225 Amps	170 Amps
Swarthmore	3/0	19	80 mls	1/0	1/0	80 mls	.616 Inches	1.430 Inches	805 Lbs	250 Amps	195 Amps
Davidson	3/0	19	80 mls	3/0	19	80 mls	.616 Inches	1.487 Inches	874 Lbs	250 Amps	195 Amps
Wake Forest	4/0	19	80 mls	2/0	19	80 mls	.672 Inches	1.560 Inches	979 Lbs	290 Amps	225 Amps
Earlham	4/0	19	80 mls	4/0	19	80 mls	.672 Inches	1.623 Inches	1066 Lbs	290 Amps	225 Amps
Slippery Rock	350	37	95 mls	4/0	19	80 mls	.851 Inches	1.945 Inches	1544.0 Lbs	385 Amps	305 Amps
Wofford	500	37	95 mls	350	37	95 mls	.851 Inches	2.348 Inches	2174 Lbs	467 Amps	420 Amps
Windham	750	61	110 mls	500	37	95 mls	.979 Inches	2.850 Inches	2542 Lbs	615 Amps	492 Amps