



PowrServ®

Low-Voltage Cable

>Insulated Conductors for Overhead and Underground Distribution

>**General Cable offers a wide range of cable types and sizes to meet utility requirements for the finest cables used in a variety of underground and overhead applications.**

>**PowrServ® OH®** 600 Volt rated cables in duplex, triplex and quadruplex neutral-supported constructions may be used for line wire, tree wire, spacer cable and overhead service entrance applications. They meet all applicable requirements of ICEA Specification S-76-474.

>**PowrServ® OH®** is also available in Reverse Twist Secondary (RTS) design, providing additional cable length for mid-span taps, and in Parallel Lashed Aerial Cable (PLAC) configuration.

>**PowrServ® XL®** 600 Volt rated cables in single, duplex, triplex and quadruplex configurations may be installed direct buried or in duct. They are rated for 90°C conductor temperature in wet or dry locations, resistant to abrasion, impact and sunlight, and meet all applicable requirements of ICEA Specification S-105-692 and UL Standard 854. Listed as Type USE-2.

>**PowrServ® XL®** cables are available in CDC® (Combined Duct & Cable) construction where they are factory-installed in high-density polyethylene conduits for ease of installation, greater protection and facility of replacement.

>**PowrServ® AR®** 600 Volt rated abuse-resistant cables are designed for direct buried installation where cable is especially susceptible to damage from replacement of unclean natural backfill and other external forces which can occur during or after installation. They are highly abrasion- and impact-resistant, sunlight-resistant, rated for 90°C conductor temperature in wet or dry locations and meet all applicable requirements of ICEA Specification S-81-570 and UL Standard 854. Listed as Type USE-2.

>**All PowrServ®** cables are available on reels, in coils or reeless packaging.





PowerServ® OH®

Multiplex Service Drop Cable Neutral-Supported 600 Volt Aluminum Conductor PE or XLPE Insulation

Product Construction:

Complete Cable:

One, two or three aluminum conductors insulated with either high molecular weight Polyethylene (PE) or Cross-Linked Polyethylene (XLPE), twisted around a bare conductor which serves as a supporting neutral. Service Drop Cable meets the requirements of ICEA Specification S-76-474. Conductors meet ASTM Specifications B231, B232 and B399, as applicable.

Insulated Conductors:

The all-aluminum stranded conductors are Class A or Class B compressed 1350-H19 aluminum. Solid conductors are H16 temper.

Insulation:

Either black extruded high molecular weight Polyethylene (PE) or Cross-Linked Polyethylene (XLPE).

Bare Neutral:

The all-aluminum stranded conductors are Class AA or Class A 1350-H19 (AAC) or 6201-T81 alloy (AAAC). Class AA aluminum conductor steel reinforced (ACSR) is also available. The direction of lay of the outer layer is right-hand.

Features and Benefits:

The insulated conductors of Service Drop Cables are resistant to weathering, abrasion, tearing, cutting and chemicals. This cable is rated at 600 volts with a maximum conductor temperature of 75°C for high molecular weight polyethylene insulation and 90°C for cross-linked polyethylene insulation.

Applications:

Service Drop Cable is intended to deliver power from the secondary power line or pole-mounted transformer to the service-entrance conductors at the user's building or other structure. Duplex is intended to deliver single-phase power. Triplex is intended to deliver 3-wire single-phase power. Quadruplex is intended to deliver 4-wire three-phase power. All constructions may also be used as pole line secondary with service splices at the pole or in mid-span.

Options:

- > Aluminum 1350-H16 conductor
- > Separator tape under insulation
- > Triplex RTS (Reverse Twist Secondary)
- > Triplex Type PLAC (Parallel Lashed Aerial Cable)
- > Reeless package



PowerServ® XL®

Single Conductor and Multiplex Underground
Distribution Cable Type USE-2 600 Volt Aluminum
Conductor XLPE Insulation UL Listed

Product Construction:

Complete Cable:

Single conductor UL Type USE-2 cables consist of an aluminum conductor insulated with extruded Cross-Linked Polyethylene (XLPE). Duplex, triplex and quadruplex Type USE-2 cables consist of one, two or three aluminum phase conductors and one neutral conductor insulated with extruded XLPE with cables twisted together to form a multiplex assembly. All cables are manufactured and tested in accordance with ICEA Specification S-105-692. When specified, the cable is produced in accordance with UL 854 and listed as a Type USE-2 cable.

Conductors:

Class B compressed aluminum 1350-H19 meeting the requirements of ASTM B231 or B786.

Insulation:

The insulation is extruded black Cross-Linked Polyethylene (XLPE). For multiplex cables, the phase conductors are black, and the neutral is black, identified by three extruded yellow stripes.

Features and Benefits:

Type USE-2 cables are suitable for direct burial or installations in ducts and are resistant to abrasion, impact and sunlight. For NEC-complying applications, the maximum conductor temperature is 90°C in wet or dry locations. This cable is also suitable for non-code-complying installations with a maximum conductor temperature of 90°C in wet or dry locations in accordance with ICEA specifications.

Applications:

UL Type USE-2 Underground Distribution Cable is intended for use in underground systems operated at 600 volts or less.

Options:

- > Aluminum 1350-H16 conductor
- > Separator tape under insulation
- > Other phase identification methods
- > Sizes 250 through 500 kcmil available with UL-allowed thin wall (0.080") insulation (primarily for installation in conduit)
- > CDC® Combined Duct & Cable factory-installed in high-density polyethylene conduits
- > Alloy 8000 aluminum conductor
- > Type RHH/RHW-2 rating to UL 44
- > Reeless package



PowerServ® AR®

Single Conductor and Multiplex Abuse-Resistant Underground Distribution Cable Type USE-2 600 Volt Aluminum Conductor XLPE Insulation UL Listed

Product Construction:

Complete Cable:

Single conductor UL Type USE-2 cables consist of an aluminum conductor insulated with extruded Cross-Linked Polyethylene (XLPE) and jacketed with extruded High-Density Cross-Linked Polyethylene (HDXLPE). Duplex, triplex and quadruplex Type USE-2 cables consist of one, two or three aluminum phase conductors and one neutral conductor insulated with extruded XLPE and jacketed with extruded HDXLPE with cables twisted together to form a multiplex assembly. All cables are manufactured and tested in accordance with ICEA Specification S-81-570. When specified, the cable is produced in accordance with UL 854 and listed as a Type USE-2 cable.

Conductors:

Class B compressed aluminum 1350-H19 meeting the requirements of ASTM B231 or B786.

Insulation and Jacket:

The extruded cross-linked polyethylene insulation meets the requirements of ICEA S-81-570. The extruded high-density cross-linked polyethylene jacket meets the requirements of ASTM D1248, Type III. For multiplex cables, the phase conductors are black, and the neutral is black, identified by three extruded yellow stripes.

Features and Benefits:

The dual extruded insulation/jacket system provides a very high degree of protection against insulation damage from unclean backfill material and from cuts and abrasions which can occur during installation. For NEC-complying applications, the maximum conductor temperature is 90°C in wet or dry locations. This cable is also suitable for non-code-complying installations with a maximum conductor temperature of 90°C in wet or dry locations in accordance with ICEA specifications.

Applications:

XLPE/HDXLPE UL Type USE-2 Underground Distribution Cable is intended for use in underground systems operated at 600 volts or less, specifically designed for direct buried installations.

Options:

- > Aluminum 1350-H16 conductor
- > Separator tape under insulation
- > Other phase identification methods
- > Sizes 250 through 500 kcmil available with UL-allowed thin wall (0.080") insulation (primarily for installation in conduit)
- > CDC® Combined Duct & Cable factory-installed in high-density polyethylene conduits
- > Alloy 8000 aluminum conductor
- > Reeless package

POWRSERV® OH SERVICE DROP CABLE-XLPE INSULATION-600 VOLTS

CODE WORD (1)	PHASE CONDUCTOR			BARE NEUTRAL			EFF. O.D. INCHES	NOMINAL WEIGHT LB/1000 FT		PACKAGING (3)		PART NUMBER
	SIZE AWG	NO. OF WIRES	INS. THKN. INCHES	SIZE AWG OR kcmil	NO. OF WIRES	RATED STRG. LBS (2)		AL.	TOTAL	NO. COILS/PALLET SIZE OR REEL SIZE	LENGTH FT	
DUPLEX 600 V AL CONDUCTOR XLPE INSULATION-ACSR FULL-SIZE NEUTRAL MESSENGER												
Shepherd/XLP	6	7	0.045	6	6/1	1190	0.475	49	77	CL 12/30X60 CL 12/30X60 NR 30.18.10	500 1000 3300	467670 789984 410155
Terrier/XLP	4	7	0.045	4	6/1	1860	0.573	78	117	CL 12/30X60	500	413856
TRIPLEX 600 V AL CONDUCTOR XLPE INSULATION-ACSR FULL-SIZE NEUTRAL MESSENGER												
Voluta/XLP	6	7	0.045	6	6/1	1190	0.550	74	118	CL 12/30X60 NR 30.18.10	500 2200	955389 906146
Periwinkle/XLP	4	7	0.045	4	6/1	1860	0.649	117	176	CL 12/30X60 NR 30.18.10 NR 32.24.12	500 1500 1800	646156 523531 803846
Conch/XLP	2	7	0.045	2	6/1	2850	0.774	186	267	CL 10/30X60 NR 36.24.14	500 1800	573699 750887
Neritina/XLP	1/0	7	0.060	1/0	6/1	4380	0.985	296	428	CL 10/30X60 CL 4/42X42 NR 36.24.14	250 500 1200	686625 641805 869460
Runcina/XLP	2/0	7	0.060	2/0	6/1	5300	1.075	374	528	NR 42.26.14	1500	656882
Zuzara/XLP	4/0	19	0.060	4/0	6/1	8350	1.139	594	794	NR 42.26.14	1000	292357
TRIPLEX 600 V AL CONDUCTOR XLPE INSULATION-ACSR REDUCED-SIZE MESSENGER												
Cockle/XLP	2	7	0.045	4	6/1	1860	0.763	163	233	CL 10/30X60 NR 32.24.12	500 1800	605891 608816
Janthina/XLP	1/0	7	0.060	2	6/1	2850	0.970	260	374	CL 5/36X36 NR 36.24.14	500 1200	228042 815497
Cerapus/XLP	4/0	19	0.060	2/0	6/1	5300	1.230	522	677	NR 40.24.14	1000	606730
TRIPLEX 600 V AL CONDUCTOR XLPE INSULATION-6201-T81 FULL-SIZE NEUTRAL MESSENGER												
Barnacles/XLP	4	7	0.045	48.69	7	1760	0.650	124	164	NR 30.18.10	500	725589
Shrimp/XLP	2	7	0.045	77.47	7	2800	0.770	197	248	NR 32.24.12	1800	304770
Gammarus/XLP	1/0	7	0.060	123.3	7	4280	0.980	313	398	NR 36.24.14	1200	471541
QUADRUPLEX 600 V AL CONDUCTOR XLPE INSULATION-ACSR FULL-SIZE MESSENGER												
Palomino/XLP	2	7	0.045	2	6/1	2850	0.885	249	355	CL 5/42X42 NR 40.24.14	500 1800	708477 691057
Costena/XLP	1/0	19	0.060	1/0	6/1	4380	1.136	396	557	NR 42.26.14	1200	577196
Appaloosa/XLP	4/0	19	0.060	4/0	6/1	8350	1.498	792	1045	NR 50.32.21	1100	812366

- (1) ACSR messenger has Class A galvanized core.
- (2) Rated strengths shown are applicable to GA2 cores.
- (3) Weights shown are for cable only. All weights and lengths are nominal. Normal length and shipping tolerances apply.

POWRSERV® XL UNDERGROUND DISTRIBUTION CABLE-XLPE INSULATION-600 VOLTS

CODE WORD	PHASE CONDUCTORS			NEUTRAL CONDUCTOR			EFFECTIVE O.D. INCHES	NOMINAL WEIGHT (1) LB/1000 FT		PACKAGING (2)		PART NUMBER
	SIZE AWG OR kcmil	NO. OF WIRES	INS. THICKNESS INCHES	SIZE AWG OR kcmil	NO. OF WIRES	INS. THICKNESS INCHES		AL.	TOTAL	1000 FT REEL		
DUPLEX 600 V AL CONDUCTOR XLPE INSULATION UL LISTED												
Clafin/XLP/EYS	6	7	0.060	6	7	0.060	0.61	49	91	NR 24.18.10		914966
Delgado/XLP/EYS	4	7	0.060	4	7	0.060	0.70	78	129	NR 24.18.10		600124
TRIPLEX 600 V AL CONDUCTOR XLPE INSULATION UL LISTED												
Erskin/XLP/EYS	6	7	0.060	6	7	0.060	0.65	74	139	NR 27.18.10		198339
Vassar/XLP/EYS	4	7	0.080	4	7	0.060	0.75	118	197	NR 30.18.10		178257
Stephens/XLP/EYS	2	7	0.060	4	7	0.060	0.84	164	256	NR 32.24.12		228095
Ramapo/XLP/EYS	2	7	0.060	2	7	0.060	0.88	187	286	NR 32.24.12		263582
Brenau/XLP/EYS	1/0	19	0.080	2	7	0.060	1.06	261	395	NR 36.24.12		954346
Bergen/XLP/EYS	1/0	19	0.080	1/0	19	0.080	1.14	298	451	NR 40.24.14		535682
Converse/XLP/EYS	2/0	19	0.080	1	19	0.080	1.18	329	487	NR 40.24.14		011165
Sweetbriar/XLP/EYS	4/0	19	0.080	2/0	19	0.080	1.38	523	718	NR 42.26.14		395269
Monmouth/XLP/EYS	4/0	19	0.080	4/0	19	0.080	1.46	597	805	NR 45.28.18		344606
Wesleyan/XLP/EYS	350	37	0.095	4/0	19	0.080	1.72	857	1136	NR 50.32.21		541366
QUADRUPLEX 600 V AL CONDUCTOR XLPE INSULATION UL LISTED												
Dyke/XLP/EYS	2	7	0.060	4	7	0.060	0.96	227	355	NR 32.24.12		870398
Wittenberg/XLP/EYS	2	7	0.060	2	7	0.060	1.00	250	385	NR 45.28.18		664028
Notre Dame/XLP/EYS	1/0	19	0.080	2	7	0.060	1.22	361	550	NR 42.26.14		011171
Wake Forest/XLP/EYS	4/0	19	0.080	2/0	19	0.080	1.58	722	993	NR 50.32.21		825425
Slippery Rock/XLP/EYS	350	37	0.095	4/0	19	0.080	1.98	1188	1582	NR 58.32.24		183981
TRIPLEX 600 V AL (8000) CONDUCTOR XLPE INSULATION UL LISTED												
Brenau-8000	1/0	19	0.080	2	7	0.060	1.04	261	384	NR 36.24.14		637972
Sweetbriar-8000	4/0	19	0.080	2/0	19	0.080	1.36	523	702	NR 42.26.14		370997
Monmouth-8000	4/0	19	0.080	4/0	19	0.080	1.42	597	789	NR 45.28.18		321128
Pratt-8000	250	37	0.095	3/0	19	0.080	1.53	628	852	NR 45.28.18		281446
Wesleyan-8000	350	37	0.095	4/0	19	0.080	1.69	858	1111	NR 50.32.21		124261
TRIPLEX 600 V AL CONDUCTOR XLPE INSULATION HDXLPE JACKET UL LISTED												
Brenau/XLP/EYS-AR	1/0	19	40/40	2	7	30/30	1.07	261	406	NR 36.24.14		011178
Converse/XLP/EYS-AR	2/0	19	40/40	1	19	40/40	1.19	329	499	NR 40.24.14		222083
Sweetbriar/XLP/EYS-AR	4/0	19	40/40	2/0	19	40/40	1.39	523	732	NR 42.26.14		011180
Wesleyan/XLP/EYS-AR	350	37	40/50	4/0	19	40/40	1.73	857	1155	NR 50.32.21		503904

- (1) Weights shown are for cable only. All weights and lengths are nominal. Normal length and shipping tolerances apply.
- (2) Reel sizes may vary.



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Form No. UTY-0015-R0410