

# PowrServ<sup>®</sup>

## Low-Voltage Cable Insulated Conductors for Overhead and Underground Distribution

General Cable offers a complete line of insulated cable designs and sizes to meet utility requirements for exceptional performance and reliability in a variety of underground and overhead low-voltage applications.

All PowrServ<sup>®</sup> cables are available on reels, coils or MasterPak<sup>®</sup> reel-less packaging.



### **PowrServ<sup>®</sup> OH**

Multiplex Overhead Service Drop and  
RTS/PLAC Secondary Cable  
Neutral-Supported 600 Volt Aluminum  
Conductor XLPE Insulation

### **PowrServ<sup>®</sup> XL**

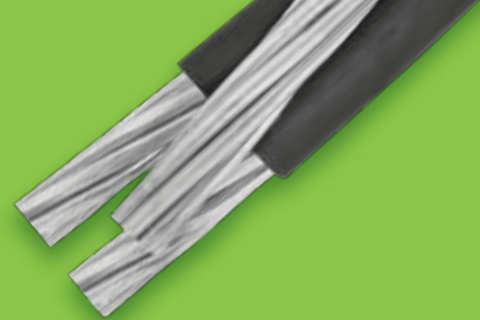
Single Conductor and Multiplex Underground  
Distribution Cable Type USE-2 600 Volt Aluminum  
Conductor XLPE Insulation UL Listed

### **PowrServ<sup>®</sup> AR**

Abuse-Resistant Underground Distribution  
Cable Type USE-2 600 Volt Aluminum  
Conductor Composite XLPE/HDXLPE  
Insulation UL Listed

# PowrServ® OH

Multiplex Overhead Service Drop and RTS/PLAC  
Secondary Cable Neutral-Supported 600 Volt  
Aluminum Conductor XLPE Insulation



**PowrServ® OH** 600 Volt rated overhead service drop cables in duplex, triplex and quadruplex neutral-supported constructions may be used for overhead service entrance applications. They meet all applicable requirements of ANSI/ICEA Standard S-76-474.

**PowrServ® OH** 600 Volt rated overhead secondary cable is available in Reverse Twist Secondary (RTS) and in Parallel Lashed Aerial Cable (PLAC) designs, both facilitating easier phase conductor separation for mid-span taps.

## Product Construction:

### Complete Cable:

One, two or three aluminum conductors insulated with extruded lead-free Cross-linked Polyethylene (XLPE), cabled with a bare conductor which serves as a supporting neutral. Neutral-Supported cable meets the requirements of ANSI/ICEA Standard S-76-474.

### Insulated Conductors:

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

### Insulation:

The insulation is extruded black lead-free Cross-linked Polyethylene (XLPE).

### Bare Neutral:

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

### Phase Identification:

Phase identification is provided by means of white print legend markings or ribs on the phase conductor, depending on the cable construction.

## Features and Benefits:

The insulated conductors of 600 V PowrServ® OH cables are resistant to weathering, abrasion, tearing, cutting, and chemicals. These cables are rated at 600 volts with a maximum conductor-rated operating temperature of 90°C for Cross-linked Polyethylene insulation.

## Applications:

PowrServ® OH overhead 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. PowrServ® OH overhead secondary RTS and PLAC constructions are ideal for use as pole line secondary with service splices at the pole or in mid-span.

## Options:

- Aluminum 1350-H16 or H26 (3/4 Hard) conductor
- Copper conductors
- Other phase identification methods
- High-molecular-weight Polyethylene (PE) 75°C rating
- High Density Polyethylene (HDPE) insulation 75°C rating
- MasterPak® reel-less packaging

# PowrServ® XL

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



**PowrServ® XL** 600 Volt rated lead-free XLPE insulated underground distribution cables in single, duplex, triplex and quadruplex configurations may be installed direct buried or in duct. They are rated for 90°C maximum conductor operating temperature in wet or dry locations, resistant to abrasion, impact and sunlight, and meet all applicable requirements of ANSI/ICEA Standard S-105-692 and UL Standard 854. PowrServ® XL is listed as a Type USE-2 cable.

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

## Product Construction:

### Complete Cable:

Single conductor UL Type USE-2 cables consist of an aluminum conductor insulated with extruded lead-free 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 that are insulated with extruded XLPE. The cables are twisted together to form a multiplex assembly. All cables are manufactured and tested in accordance with ANSI/ICEA Standard S-105-692 and UL Standard 854. PowrServ® XL is listed as a Type USE-2 cable.

### Conductors:

Class B compressed aluminum 1350-H19.

### Insulation:

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

### Phase Identification:

Phase identification is provided by means of white print legend markings on the phase conductor.

## Features and Benefits:

600 V PowrServ® XL cables are suitable for direct burial or installation in ducts and are resistant to abrasion, impact and sunlight. These cables are suitable for temperatures of 90°C in wet or dry locations.

## Applications:

PowrServ® XL underground distribution cable is intended for use in underground systems operated at 600 volts or less.

## Options:

- Aluminum 1350-H16 or H26 (3/4 Hard) conductor
- Copper conductors
- Other phase identification methods
- Series 8000 aluminum alloy conductor
- Sizes 250 through 500 kcmil available with thin wall (0.080") insulation (primarily for installation in conduit)
- High-molecular-weight Polyethylene (PE) insulation 75°C rating
- Type RHH/RHW-2 per UL 44
- CDC® Combined Duct & Cable factory-installed in extruded high density polyethylene duct
- MasterPak® reel-less packaging

# PowrServ® AR

Abuse-Resistant Underground Distribution Cable  
Type USE-2 600 Volt Aluminum Conductor  
Composite XLPE/HDXLPE Insulation UL Listed



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

**PowrServ® AR** abuse-resistant underground distribution cables are available in CDC® Combined Duct & Cable construction where they are factory-installed in extruded high density polyethylene duct for ease of installation, substantially greater protection and facility of replacement.

## Product Construction:

### Complete Cable:

PowrServ® AR abuse-resistant underground distribution duplex, triplex and quadruplex cables consist of one, two or three aluminum phase conductors and one neutral conductor, all of which are insulated with extruded composite lead-free Cross-linked Polyethylene (XLPE) and High Density Cross-linked Polyethylene (HDXLPE). The cables are twisted together to form a multiplex assembly. All cables are manufactured and tested in accordance with ANSI/ICEA Standard S-81-570 and UL Standard 854. PowrServ® AR is listed as a Type USE-2 cable.

### Conductors:

Class B compressed aluminum 1350-H19.

### Composite Insulation:

The extruded composite Cross-linked Polyethylene (XLPE) and High Density Cross-linked Polyethylene (HDXLPE) insulation meets the requirements of ANSI/ICEA S-81-570. For multiplex cables, the phase conductors are black, and the neutral is black, identified by three extruded yellow stripes.

### Phase Identification:

Phase identification is provided by means of white print legend markings on the phase conductor.

## Features and Benefits:

600 V PowrServ® AR dual extruded insulation 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. These cables are suitable for temperatures of 90°C in wet or dry locations.

## Applications:

PowrServ® AR XLPE/HDXLPE underground distribution cable is intended for use in underground systems operated at 600 volts or less.

## Options:

- Aluminum 1350-H16 or H26 (3/4 Hard) conductor
- Copper conductors
- Sizes 250 - 500 kcmil available with thin wall (0.080") insulation (primarily for installation in conduit)
- Other phase identification methods
- CDC® Combined Duct & Cable factory-installed in extruded high density polyethylene duct
- MasterPak® reel-less packaging

# General Cable's MasterPak® Reel-less Solution for PowrServ®

## Low-Voltage Service Drop and Secondary Distribution Cables

RECOMMENDED MasterPak® LENGTHS  
FOR TYPICAL, BUT NOT LIMITED TO, THE FOLLOWING CONSTRUCTIONS

CODE WORD	MAXIMUM PACKAGE SIZE 42" REUSABLE REEL OR DOME*			MAXIMUM PACKAGE SIZE 48" REUSABLE REEL**		
	LENGTH FEET	WEIGHT POUNDS	OUTER DIA. INCHES	LENGTH FEET	WEIGHT POUNDS	OUTER DIA. INCHES
<b>PowrServ® OH Duplex Service Drop Cable Neutral-Supported 600 V AI Conductor XLPE Insulation – ACSR Full-Size Neutral Messenger</b>						
Shepherd/XLP	14000	1078	40.0	19000	1463	45.3
Terrier/XLP	10000	1170	39.8	14000	1638	46.0
<b>PowrServ® OH Triplex Service Drop Cable Neutral-Supported 600 V AI Conductor XLPE Insulation – ACSR Full-Size Neutral Messenger</b>						
Periwinkle/XLP	5300	928	39.7	7550	1321	46.0
Conch/XLP	3300	878	39.9	4650	1237	46.0
Neritina/XLP	2000	850	40.0	2800	1190	46.0
Runcina/XLP	1700	898	40.0	2400	1267	46.0
Zuzara/XLP	1150	909	39.7	1650	1304	46.1
<b>PowrServ® OH Triplex Service Drop Cable Neutral-Supported 600 V AI Conductor XLPE Insulation – ACSR Reduced-Size Messenger</b>						
Cockle/XLP	3800	882	39.9	5350	1241	45.9
Janthina/XLP	2300	853	40.0	3200	1187	45.8
<b>PowrServ® OH Quadruplex Service Drop Cable Neutral-Supported 600 V AI Conductor XLPE Insulation – ACSR Full-Size Messenger</b>						
Palomino/XLP	2000	710	40.0	2750	976	45.7
Costena/XLP	1200	668	40.0	1650	919	45.7
Appaloosa/XLP	700	732	40.0	1000	1045	46.3
<b>PowrServ® XL Underground Distribution Cable Type USE-2 600 V Triplex AI Conductor XLPE Insulation UL Listed</b>						
Stephens/XLP/EYS	2850	755	40.0	4000	1060	46.0
Brenau/XLP/EYS	2000	790	40.0	2750	1086	45.9
Converse/XLP/EYS	1500	731	40.0	2000	974	45.3
Sweetbriar/XLP/EYS	1000	718	39.4	1450	1041	45.9
Monmouth/XLP/EYS	1000	805	39.4	1450	1167	45.9
Wesleyan/XLP/EYS	750	852	40.0	1050	1193	46.0
<b>PowrServ® XL Underground Distribution Cable Type USE-2 600 V Quadruplex AI Conductor XLPE Insulation UL Listed</b>						
Notre Dame/XLP/EYS	1150	633	39.7	1650	908	46.0
Wake Forest/XLP/EYS	600	596	39.5	850	844	45.5
<b>PowrServ® AR Underground Distribution Cable Type USE-2 600 V Triplex AI Conductor Composite XLPE/HDXLPE Insulation UL Listed</b>						
Brenau/AR/EYS	2000	812	40.3	2750	1117	45.9
Converse/AR/EYS	1500	749	40.3	2050	1023	45.8
Fisk/AR/EYS	1500	705	40.3	1900	890	46.0
Hollins/AR/EYS	1000	605	40.0	1500	910	45.0
Sweetbriar/AR/EYS	1000	732	39.4	1450	1061	45.9
Wesleyan/AR/EYS	750	866	40.1	1050	1213	46.0

\* Based on reusable reel or dome having a 42" flange, 28" traverse, 17.5" drum diameter (18.5" coil diameter, 26" coil traverse).

\*\*Based on reusable reel having a 48" flange, 28" traverse, 17.5" drum diameter (18.5" coil diameter, 26" coil traverse).

Contact your General Cable sales representative TODAY to learn how YOU can meet your sustainability goals with the MasterPak® reel-less packaging solution.

# Cable Solutions for the Energy Market

General Cable, a Fortune 500 company, is one of the world's leading manufacturers of cabling solutions for the energy market, consistently delivering innovative products built on long-term performance, sustainable reliability and dependable service. General Cable is committed to producing and marketing solutions using environmentally sound materials and production processes to ensure they have the least possible environmental impact while providing unmatched reliability. You can count on the distinguished pedigree of leadership from General Cable to lead the utility industry into the 21st century and beyond.



**PowrServ®**

## **BICC® Brand PowrServ® Low-Voltage Distribution Cables**

PowrNet® Underground Network Cable

Underground Distribution Cable

Service Drop and RTS/PLAC Secondary Cable Neutral-Supported



**EmPowr®**

## **BICC® Brand EmPowr® Medium-Voltage Distribution Cables**

5 kV – 35 kV Concentric Neutral Underground Distribution Cable – EPR, TRXLPE or Lead-free EAM

5 kV – 35 kV Copper Wire and Copper Tape Shielded Cable – EPR, TRXLPE or Lead-free EAM

5 kV – 35 kV Longitudinally Applied Corrugated Tape (LACT) Shielded Cable – EPR, TRXLPE or Lead-free EAM

15 kV & 25 kV PowrPak® Flat Strap-PILC Replacement Cable – EPR, TRXLPE or Lead-free EAM

CDC® Combined Duct & Cable



**TransPowr®**

## **BICC® Brand TransPowr® Bare Overhead Conductors**

AAC; AAC/TW; AAAC; ACAR; ACSR; ACSR/AW; ACSR/TW; ACSS; ACSS/AW; ACSS/TW; AAC/T-2®; ACSR/T-2®; ACSR/SD; Weatherproof Overhead Line Wire; Dead Soft Annealed (DSA) Copper Clad Steel Conductor; Aluminum Tie Wire



**Silec®**

## **Silec® Brand Underground High- and Extra-High-Voltage Solutions**

Underground Transmission Cables up to 5000 kcmil

Terminations; Joints; Accessories

Turnkey Services



**NSW®**

## **NSW® Brand Submarine Transmission and Distribution Cables**

Submarine cables for power transmission

Turnkey Services: Desktop Study; Marine Survey; Installation & Commissioning; Repair and Maintenance