PowrServ® OH Secondary Cable Neutral-Supported Type RTS

600 V Triplex Al Conductor XLPE Insulation Reverse Twist Secondary (RTS)

Product Construction:

Complete Cable:

Reverse Twist Secondary (RTS) cable consists of two aluminum conductors insulated with extruded lead-free Cross-linked Polyethylene (XLPE), reverse twisted around an aluminum alloy or ACSR conductor which serves as a supporting neutral. RTS cable meets the requirements of ANSI/ICEA S-76-474. Conductors meet ASTM B231, B232 and B399 as applicable.

Insulated Conductors:
The all-aluminum stranded conductors are Class A, Class B, or SIW compressed 1350-H19 aluminum.

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

Bare Neutral:
The all-aluminum alloy stranded conductors are Class AA or Class A 6201-T81 aluminum alloy (AAAC). The aluminum conductor steel reinforced (ACSR) is Class AA. The outer layer is right-hand.

Lashing Wire:
Aluminum 1350 wire, either flat wire approximately #10 AWG with beveled edges or #10 AWG wire covered with high-density polyethylene.

Features and Benefits:

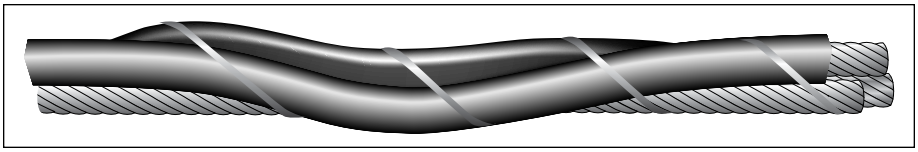
The insulated conductors of RTS cables are resistant to weathering, sunlight, abrasion, tearing, cutting and chemicals. Conventional equipment can be used to string RTS. This cable is rated at 600 volts with a maximum conductor operations temperature of 90°C for extruded cross-linked polyethylene insulation.

Applications:

Reverse twist secondary cable is used as a secondary overhead distribution cable for 3-wire single phase power. The alternating lay direction (left-right-left) provides additional cable length for mid-span taps.

Options:

- Aluminum 1350-H16 or H26 (¾ Hard) stranded conductor
- Copper conductors
- High-molecular-weight Polyethylene (PE) insulation, 75˚C rating
- High-Density Polyethylene (HDPE) insulation, 75˚C rating



POWRSERV OH TRIPLEX REVERSE TWIST SECONDARY - XLPE INSULATION - 600 VOLTS

CODE WORD	PHASE CONDUCTOR			NEUTRAL CONDUCTOR			EFF. O.D. INCHES	APPROX. WEIGHT LB/1000 FT		AMPS (2)	PACKAGING (3)	
	SIZE AWG	NO. OF WIRES (1)	INS. THKN. INCHES	SIZE AWG	NO. OF WIRES	RATED STRG. POUNDS		AL	TOTAL		TYPE & SIZE	LENGTH FEET
ALUMINUM 6201-T81 FULL-SIZE NEUTRAL MESSENGER												
Pope/XP	2	7	0.045	77.47	7	2800	0.77	197	242	195	NR 32.24	1100
											NR 42.26	2100
Auburn/XP	1/0	7	0.060	123.3	7	4270	0.98	314	382	260	NR 40.24	1100
											NR 50.32	2500
Rockne/XP	2/0	7	0.060	155.4	7	5390	1.08	396	472	300	NR 40.24	1000
											NR 50.32	2000
Case/XP	3/0	7	0.060	195.7	7	6790	1.19	499	584	350	NR 42.26	1000
											NR 58.32	2500
Durant/XP	4/0	7	0.060	246.9	7	8560	1.31	629	724	405	NR 50.32	1300
											NR 66.36	2700
											NR 66.36	3400
-none-	266.8	19	0.080	312.8	19	10500	1.54	794	941	470	NR 66.36	1600
											NR 66.36	2400
-none-	336.4	19	0.080	394.5	19	13300	1.70	1002	1167	550	NR 66.36	1500
											NR 66.36	2000
-none-	397.5	19	0.080	465.4	19	15600	1.83	1183	1363	610	NR 66.36	1200
											NR 66.36	1600
ACSR FULL-SIZE NEUTRAL MESSENGER												
Edsel/XP	2	7	0.045	2	6/1	2850	0.77	187	262	195	NR 32.24	1100
											NR 42.26	2100
Essex/XP	1/0	7	0.060	1/0	6/1	4380	0.98	297	413	260	NR 40.24	1100
											NR 50.32	2500
Cord/XP	2/0	7	0.060	2/0	6/1	5300	1.08	375	510	300	NR 40.24	1000
											NR 50.32	2000
Stutz/XP	3/0	7	0.060	3/0	6/1	6620	1.19	472	632	350	NR 42.26	1000
											NR 58.32	2500
Reo/XP	4/0	7	0.060	4/0	6/1	8350	1.31	596	786	405	NR 50.32	1300
											NR 66.36	2700
											NR 66.36	3400
-none-	266.8	19	0.080	266.8	26/7	11300	1.54	754	1018	470	NR 66.36	1600
											NR 66.36	2400
-none-	336.4	19	0.080	336.4	26/7	14100	1.70	950	1263	550	NR 66.36	1500
											NR 66.36	2000
-none-	397.5	19	0.080	397.5	26/7	16300	1.83	1123	1477	610	NR 66.36	1200
											NR 66.36	1600

(1) Actual number of wires may differ for compressed round stranded aluminum conductors using single input wire (SIW).
(2) Ampacities are based on conductor temperature of 65˚C over 25˚C ambient, 2 ft/sec crosswind, .9 coefficient of emissivity, no sun. For specific ampacities, contact your General Cable sales representative.
(3) Normal length and shipping tolerances apply. Reel sizes may vary.

Dimensions and weights not designated minimum or maximum are nominal values and subject to manufacturing tolerances. In this context, weight means mass.