

600 Volt SUPERSEAL[®] Self-Repairing Low Voltage Utility Cables



Applications

Secondary UD Power Cable, with aluminum conductors and a cross-linked polyethylene insulation that is formulated for a balance of flexibility and mechanical toughness. Superseal[®] uses a patented self-healing technology that repairs damage to the insulation there by reducing secondary cable failures.

Specifications and ratings

ICEA- ICEA S-81-570 (as applicable)

RUS- RUS Accepted

For 90°C Wet or Dry Operation.

Options

- Series 8000 Aluminum Conductor(s)
- Paralleled
- Solid Black Neutral

Installation



Direct Buried



Underground Duct



Wet Locations



Dry Locations



Utility Secondary

Design Parameters

CONDUCTORS: Class B compressed unilay or compressed round aluminum alloy 1350 per ASTM.

PHASE INSULATION: Extruded composite three-part cable insulation consisting of an inner layer of low density polyethylene, encapsulated channels of self-healing EPDM-based Prysmian SR compound and an outer layer of black, sunlight resistant, high-density polyethylene.

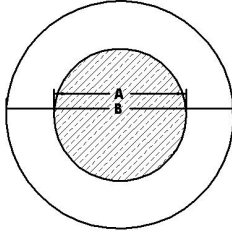
NEUTRAL INSULATION: Extruded composite three-part cable insulation consisting of an inner layer of low density polyethylene, encapsulated channels of self-healing EPDM-based Prysmian SR compound and an outer layer of black, sunlight resistant, high-density polyethylene with extruded yellow stripes for neutral identification.

ASSEMBLY: For multiple cable assemblies, one, two, or three phase conductors with one neutral twisted together.

CABLE MARKINGS: Sequential footage markings on one phase conductor. Phase identification surface printed in white ink: 1/C - "Phase A", 1/C - "Phase B", 1/C - "Phase C", as applicable.

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Product Number	Code Name	Phase Conductor	Phase Insulation Thickness (mils)	Phase Conductor Diameter (in)	Outside Diameter (in)	Cable Weight (lbs/100ft)	Minimum Bending Radius (in)	† Ampacity (Amps)	
								90°C In Duct	90°C Direct Buried
600 Volt Aluminum Single Conductor									
Q0M320A	Clemson	2 AWG AL	60	0.284	0.41	94	2	100	155
Q0Q320A	Harvard	1/0 AWG AL	80	0.352	0.52	150	3	135	200
Q0R320A	Yale	2/0 AWG AL	80	0.395	0.56	181	3	155	225
Q0T320A	Beloit	4/0 AWG AL	80	0.498	0.67	270	3	210	295
Q0V32RA	Rutgers	350 MCM AL	80	0.664	0.83	421	4	285	385

PRODUCT NOTES:

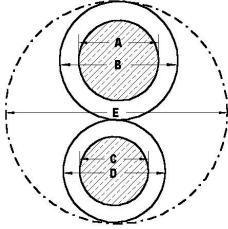
† Ampacities are based on the following:

[§] Items are Prysmian authorized stock.
The above dimensions are approximate and subject to normal manufacturing tolerances.

Three conductors triplexed, 90°C conductor temperature, 20°C ambient earth temperature, earth RHD of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and three phase operation.

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Product Number	Code Name	Phase Conductor	Phase Insulation Thickness (mils)	Neutral Conductor	Neutral Insulation Thickness (mils)	Phase Conductor Diameter (in)	Phase Insulation Diameter (in)	Neutral Conductor Diameter (in)	Neutral Insulation Diameter (in)	Outside Diameter (in)	Cable Weight (lbs/ft)	Minimum Bending Radius (in)	† Ampacity (Amps)	
													90°C In Duct	90°C Direct Buried
600 Volt Aluminum Duplexed - 1/C Phase and 1/C Neutral														
Q0MGMOA	Everett	2 AWG AL	60	2 AWG AL	60	0.284	0.41	0.284	0.41	0.82	191	4	115	180
Q0RGROA	Findlay	2/0 AWG AL	80	2/0 AWG AL	80	0.395	0.56	0.395	0.56	1.13	366	6	175	265
Q0TGTOA	Hanover	4/0 AWG AL	80	4/0 AWG AL	80	0.498	0.67	0.498	0.67	1.33	543	7	235	345
Q0VGVRA	Glenville	350 MCM AL	80	350 MCM AL	80	0.664	0.83	0.664	0.83	1.66	846	9	325	455

PRODUCT NOTES:

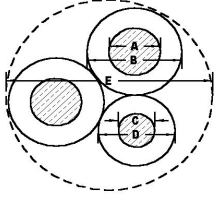
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† Ampacities are based on the following:

90°C conductor temperature, 20°C ambient earth temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and neutral carrying only unbalanced load.

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Product Number	Code Name	Phase Conductor	Phase Insulation Thickness (mils)	Neutral Conductor	Neutral Insulation Thickness (mils)	Phase Conductor Diameter (in)					Outside Diameter (in)	Cable Weight (lbs/1000ft)	Minimum Bending Radius (in)	† Ampacity (Amps)	
						(A)	(B)	(C)	(D)	(E)				90°C In Duct	90°C Direct Buried
600 Volt Aluminum Triplexed - 2/C Phase and 1/C Neutral															
Q0MHM0A	Ramapo	2 AWG AL	60	2 AWG AL	60	0.284	0.41	0.284	0.41	0.89	285	4	115	180	
Q0QH0A	Brenau	1/0 AWG AL	80	2 AWG AL	60	0.352	0.52	0.284	0.41	1.06	396	6	155	235	
Q0QH0A	Bergen	1/0 AWG AL	80	1/0 AWG AL	80	0.352	0.52	0.352	0.52	1.12	452	6	155	235	
Q0RH0A	Fisk	2/0 AWG AL	80	2 AWG AL	60	0.395	0.56	0.284	0.41	1.13	459	6	175	265	
Q0RH0A	Shaw	2/0 AWG AL	80	1/0 AWG AL	80	0.395	0.56	0.352	0.52	1.19	515	6	175	265	
Q0RH0A	Hunter	2/0 AWG AL	80	2/0 AWG AL	80	0.395	0.56	0.395	0.56	1.21	547	7	175	265	
Q0TH0A	Molloy	4/0 AWG AL	80	1/0 AWG AL	80	0.498	0.67	0.352	0.52	1.35	692	7	235	345	
Q0TH0A	Sweetbriar	4/0 AWG AL	80	2/0 AWG AL	80	0.498	0.67	0.395	0.56	1.37	724	7	235	345	
Q0TH0A	Monmouth	4/0 AWG AL	80	4/0 AWG AL	80	0.498	0.67	0.498	0.67	1.43	813	8	235	345	
Q0VH0A	Greenville	350 MCM AL	80	1/0 AWG AL	80	0.664	0.83	0.352	0.52	1.66	995	9	325	455	
Q0VH0A	Wesleyan	350 MCM AL	80	4/0 AWG AL	80	0.664	0.83	0.498	0.67	1.71	1116	9	325	455	
Q0VH0A	Newark	350 MCM AL	80	350 MCM AL	80	0.664	0.83	0.664	0.83	1.79	1268	9	325	455	

PRODUCT NOTES:

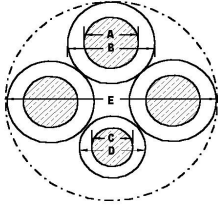
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90°C conductor temperature, 20°C ambient earth temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and neutral carrying only unbalanced load.

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Product Number	Code Name	Phase Conductor	Phase Insulation Thickness (mils)	Neutral Conductor	Neutral Insulation Thickness (mils)	Phase Conductor Diameter (in)					Outside Diameter (in)	Cable Weight (lbs/1000ft)	Minimum Bending Radius (in)	† Ampacity (Amps)		
						(A)	(B)	(C)	(D)	(E)				90°C In Duct	90°C Direct Buried	
600 Volt Aluminum Quadruplexed - 3/C Phase and 1/C Neutral																
QOMIM0A	Wittenberg	2 AWG AL	60	2 AWG AL	60	0.284	0.41	0.284	0.41	1.00	380	6	100	155		
QQQIM0A	Notre Dame	1/0 AWG AL	80	2 AWG AL	60	0.352	0.52	0.284	0.41	1.20	546	7	135	200		
QQQIQ0A	Purdue	1/0 AWG AL	80	1/0 AWG AL	80	0.352	0.52	0.352	0.52	1.26	601	7	135	200		
QQRIR0A	Lafayette	2/0 AWG AL	80	2/0 AWG AL	80	0.395	0.56	0.395	0.56	1.37	729	7	155	225		
QQTIM0A	McPherson	4/0 AWG AL	80	2 AWG AL	60	0.498	0.67	0.284	0.41	1.48	906	8	210	295		
QQTIQ0A	Doane	4/0 AWG AL	80	1/0 AWG AL	80	0.498	0.67	0.352	0.52	1.54	962	8	210	295		
QQTIROA	Wake Forest	4/0 AWG AL	80	2/0 AWG AL	80	0.498	0.67	0.395	0.56	1.55	994	8	210	295		
QQTIT0A	Earlham	4/0 AWG AL	80	4/0 AWG AL	80	0.498	0.67	0.498	0.67	1.62	1083	9	210	295		
QQVITRA	Slippery Rock	350 MCM AL	80	4/0 AWG AL	80	0.664	0.83	0.498	0.67	1.94	1537	10	285	385		
QQVIVRA	Niagara	350 MCM AL	80	350 MCM AL	80	0.664	0.83	0.664	0.83	2.02	1689	13	285	385		

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Prysmian Group

700 Industrial Drive | Lexington, SC 29072 | +1-800-845-8507 | website: na.prysmiangroup.com
137 Commerce Drive | Johnstown, Ontario K0E 1T1