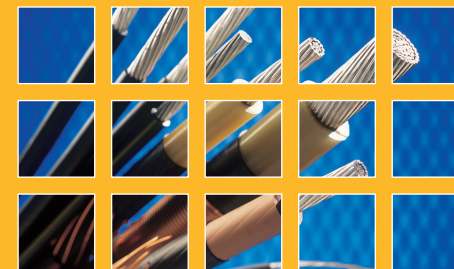




# 600 Volt SUPERSEAL™ SELF-REPAIRING



July 2002

## Description

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 thereby reducing secondary cable failures.

## Specifications

## Ratings

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

For 90°C Wet or Dry Operation.



## Design Parameters

### Conductor

- Class B Compressed Unilay or Compressed Round aluminum alloy 1350 per ASTM.

### Separator Tape

- Mylar tape longitudinally applied over conductor.

### Phase Insulation

- Extruded composite two layer cable insulation consisting of an inner layer of self-healing EPDM-based Pirelli SR compound and an outer layer of black high-density polyethylene.

### Neutral Insulation

- Extruded composite two layer cable insulation consisting of an inner layer of self-healing EPDM-based Pirelli SR compound and an outer layer of black 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

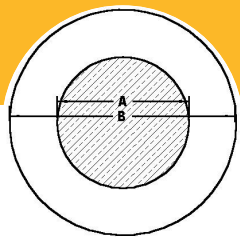
- Sequential footage markings on one phase conductor. Phase identification surface printed in white ink: 1/C - "Phase A", 1/C - "Phase B", 1/C - "Phase C", as applicable.

## Options

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

## Installations

- Direct Buried
- Underground Duct
- Wet Locations
- Dry Locations
- Utility Secondary



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Product Number	Code Name	Phase Conductor	Phase Insulation Thickness (mils)		Phase Conductor Diameter (in.)		Outside Diameter (in.)	Cable Weight (lbs/Mft)	Minimum Bending Radius (in.)		† Ampacity (Amps)
			(A)	(B)	(A)	(B)			90°C In Duct	90°C Direct Buried	
<b>600 Volt Aluminum Single Conductor</b>											
QØM32ØA	Clemson	2 AWG AL	60	0.284	0.41	94	2	100	155		
QØQ32ØA	Harvard	1/0 AWG AL	80	0.352	0.52	150	3	135	200		
QØR32ØA	Yale	2/0 AWG AL	80	0.395	0.56	181	3	155	225		
QØT32ØA	Beloit	4/0 AWG AL	80	0.498	0.67	270	3	210	295		
QØV32RA	Rutgers	350 MCM AL	80	0.664	0.83	421	4	285	385		

Information Subject to Change without Notice.

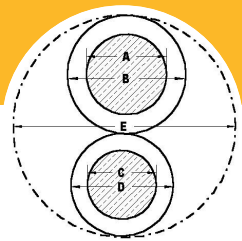
**PRODUCT NOTES:**

†Ampacities are based on the following:

▲ Items are Pirelli 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 RHO 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 Insulation Thickness (mils)		Phase Conductor Diameter (in.)		Neutral Conductor Diameter (in.)		Outside Diameter (in.)	Cable Weight (lbs/ft)	Minimum Bending Radius (in.)		† Ampacity (Amps)
			(A)	(B)	(C)	(D)	(E)	90°C In Duct	90°C Direct Buried						
<b>600 Volt Aluminum Duplexed - 1/C Phase and 1/C Neutral</b>															
QØMGMØA	Everett	2 AWG AL	60	2 AWG AL	60	0.284	0.41	0.284	0.41	0.82	191	4	115	180	
QØRGRØA	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	
QØTGTØA	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	
QØVGVRA	Glenville	350 MCM AL	80	350 MCM AL	80	0.664	0.83	0.664	0.83	1.66	846	9	325	455	

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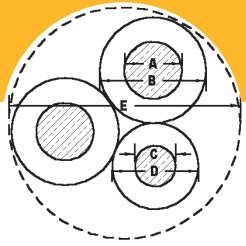
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90°C conductor temperature, 20°C ambient earth temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and 36 inch depth of burial.





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Product Number	Code Name	Phase Conductor	Phase Insulation Thickness (mils)		Neutral Conductor		Neutral Insulation Thickness (mils)		Phase Conductor Diameter (in.)		Neutral Conductor Diameter (in.)		Outside Diameter (in.)	Cable Weight (lbs/ft)	Minimum Bending Radius (in.)		† Ampacity (Amps)
			(A)	(B)	(C)	(D)	(E)	90°C In Duct	90°C Direct Buried								
<b>600 Volt Aluminum Triplexed - 2/C Phase and 1/C Neutral</b>																	
QØMHMØA	Ramapo	2 AWG AL	60	2 AWG AL	60	0.284	0.41	0.284	0.41	0.89	285	4	115	180			
QØQHMOA	Brenau	1/0 AWG AL	80	2 AWG AL	60	0.352	0.52	0.284	0.41	1.06	396	6	155	235			
QØQHQA	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			
QØRHMØA	Fisk	2/0 AWG AL	80	2 AWG AL	60	0.395	0.56	0.284	0.41	1.13	459	6	175	265			
QØRHQA	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			
QØRHRØA	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			
QØTHQA	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			
QØTHRØA	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			
QØTHTØA	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			
QØVHQRA	Greenville	350 MCM AL	80	1/0 AWG AL	80	0.664	0.83	0.352	0.52	1.66	995	9	325	455			
QØVHTRA	Wesleyan	350 MCM AL	80	4/0 AWG AL	80	0.664	0.83	0.498	0.67	1.71	1116	9	325	455			
QØVHVRA	Newark	350 MCM AL	80	350 MCM AL	80	0.664	0.83	0.664	0.83	1.79	1268	9	325	455			

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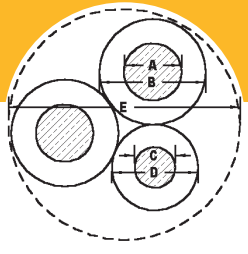
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The above dimensions are approximate and subject to normal manufacturing tolerances.

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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 Insulation Thickness (mils)		Phase Conductor Diameter (in.)		Neutral Conductor Diameter (in.)		Outside Diameter (in.)	Cable Weight (lbs./ft)	Minimum Bending Radius (in.)		† Ampacity (Amps)
			Phase	Neutral	(A)	(B)	(C)	(D)	(E)	90°C In Duct			90°C Direct Buried		
<b>600 Volt Aluminum Quadruplexed - 3/C Phase and 1/C Neutral</b>															
QØMIMØA	Wittenberg	2 AWG AL	60	2 AWG AL	60	0.284	0.41	0.284	0.41	1.00	380	6	100	155	
QØQIMØA	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	
QØQIQØA	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	
QØRIRØA	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	
QØTIMØA	McPherson	4/0 AWG AL	80	2 AWG AL	60	0.498	0.67	0.284	0.41	1.48	906	8	210	295	
QØTIQØA	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	
QØTIRØA	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	
QØTITØA	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	
QØVITRA	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	
QØVIVRA	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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90°C conductor temperature, 20°C ambient earth temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, three phase operation, and neutral carrying no load.

