



# 1-46kV 3/C PILC



July 2002

## Description

Three compact sector copper conductors, each with a semiconducting conductor shield, oil-impregnated paper insulation, semiconducting insulation shield, metal shielding tape, assembled with oil-impregnated fillers, binder tape, lead sheath and an overall jacket.

## Specifications

**CSA** CSA C68.1

**AEIC** AEIC CS1

## Ratings

For 90°C continuous, 110°C emergency operation.



## Design Parameters

### Conductor

- Soft drawn, bare, 120-degree compact sector copper per ASTM.

### Conductor Shield

- Semi-conducting carbon black paper tape conductor shield (10kV and above).

### Insulation

- Paper tape insulation impregnated with high quality, low viscosity polybutene-based oil. Tapes are applied with controlled tension to insure a wrinkle free insulation system.

### Insulation Shield

- Semi-conducting carbon black paper tape insulation shield (8kV and above).

### Metallic Shield

- Helically applied copper shielding tape intercalated with colored paper tape for phase identification.

### Assembly

- Conductors cabled with oil-impregnated fillers to form a round, firm core and covered with an oil-impregnated metallized paper tape binder.

### Sheath

- "1/2C" lead sheath applied over the binder tape.

### Outer Jacket

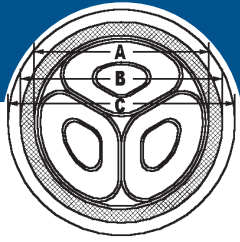
- Linear low-density polyethylene (LLDPE) jacket applied over the sheath. If jacket is not required, a protective coating will be applied over the sheath to prevent cold welding of the layers on a reel.

## Options

- Non-migrating oil
- PVC Jacket (adhesive required)
- Lead alloy sheaths
- Aluminum conductor
- Different grades of polyethylene jackets
- Unjacketed
- Belted Type (1-15kV only)
- Two copper shielding tapes
- Concentric and compact round conductors

## Installations

- |                  |                 |
|------------------|-----------------|
| Underground Duct | Isolated in Air |
| Wet Locations    | Dry Locations   |
| Utility Primary  | Direct Buried   |
| Industrial       |                 |



# 3/C PILC

15kV 100%

Product Number	†Conductor	Insulation Thickness (mils)		Lead Sheath Thickness* (mils)		Jacklet Thickness (mils)		Conductor V-Gauge Depth		Binder Diameter		Lead Diameter		Jacklet Diameter		Cable Weight	
		(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(lbs/kit)	(kg/km)		
<b>15kV 100% Copper Three Conductor</b>																	
QYZ264C	4/0 AWG CU	165	95	90	0.417	10.59	1.72	43.69	1.93	49.02	2.13	54.10	6050	9002			
QYZ265C	250 MCM CU	165	95	90	0.455	11.56	1.80	45.72	2.00	50.80	2.20	55.88	6600	9821			
QYZ266C	300 MCM CU	165	100	90	0.497	12.62	1.89	48.01	2.10	53.34	2.30	58.42	7450	11086			
QYZ267C	350 MCM CU	165	100	90	0.539	13.69	1.97	50.04	2.19	55.63	2.39	60.71	8130	12097			
QYZ268C	400 MCM CU	165	100	90	0.572	14.53	2.04	51.82	2.26	57.40	2.46	62.48	8800	13094			
QYZ269C	500 MCM CU	165	105	110	0.642	16.31	2.18	55.37	2.41	61.21	2.65	67.31	10370	15431			
QYZ270C	600 MCM CU	165	110	110	0.700	17.78	2.30	58.42	2.54	64.52	2.78	70.61	11820	17588			
QYZ271C	650 MCM CU	165	110	110	0.725	18.42	2.36	59.94	2.59	65.79	2.83	71.88	12420	18481			
QYZ272C	750 MCM CU	165	110	110	0.780	19.81	2.47	62.74	2.70	68.58	2.94	74.68	13680	20356			
QYZ273C	800 MCM CU	165	115	110	0.806	20.47	2.52	64.01	2.77	70.36	3.01	76.45	14500	21576			
QYZ27YC	1000 MCM CU	165	120	110	0.900	22.86	2.72	69.09	2.97	75.44	3.21	81.53	17150	25519			

Information Subject to Change without Notice.

**PRODUCT NOTES:**

▲ Items are Pirelli authorized stock.

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

All metric (SI) dimensions are derived from a soft conversion.

†Additional conductor sizes are available.

\*Reduced thickness lead sheath, per AEIC CS1 or CSA C68.1, Table VII, Part B.

