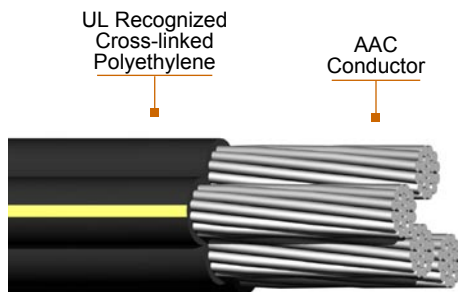


## Secondary UD Quadruplex 600V

Aluminum Conductor Cross-linked Polyethylene (XLPE) Insulation, 600V Three Phase with Neutral



### Detail Description or Construction

#### Conductor

Stranded, compressed 1350-H19 aluminum, insulated with Cross-linked Polyethylene (XLPE). Neutrals are identified with triple solid yellow stripes. Three phase conductors and one neutral conductor cabled together.

### Application

The Quadruplex 600V Secondary UD Cable is mainly used for secondary distribution and underground service either direct burial or in ducts. The cable is designed for use at 600 volts or less.

### Standards / Testing Specifications

Secondary UD single conductor 600V cable meets or exceeds the following ASTM specifications.

- B-230 Aluminum Wire, 1350-H19 for Electrical Purposes
- B-231 Aluminum 1350 Conductors, Concentric-Lay-Stranded

Secondary UD quadruplex conductor 600V cable meets or exceeds all applicable requirements of ICEA S-105-692.

“USE-2” per U.L. 854 available upon request.

### Marking

#### • Phase conductors

E194993 (SIZE AWG or KCMIL)  
AL TYPE USE-2 600V XLPE (UL) (YEAR OF MANUFACTURE) PHASE (A, B OR C).

#### • Neutral conductor

E194993 (SIZE AWG or KCMIL)  
AL TYPE USE-2 600V XLPE (UL) (YEAR OF MANUFACTURE).  
SEQUENTIAL FOOTAGE MARKINGS  
OPTIONAL ON PHASE B CONDUCTOR.

### Installation

For secondary distribution and underground service either direct burial or in ducts.



## Secondary UD Quadruplex 600V

Aluminum Conductor Cross-linked Polyethylene (XLPE) Insulation, 600V Three Phase with Neutral

Code Word	Phase Conductor			Neutral			Diameter		Approx. Weight lb/1000ft	Allowable Ampacities Raceway, (Cable, In Ducts)
	Size	Number of Wires	Insulation Thickness	Size	Number of Wires	Insulation Thickness	Single Phase Conductor	Complete Cable		
	AWG or Kcmil		in	AWG		in	in			
QUADRUPLEXED WITH TRIPLE SOLID YELLOW STRIPES NEUTRAL										
Tulsa	4	7	0.060	4	7	0.060	0.344	0.831	259	85
Dyke	2	7	0.060	4	7	0.060	0.403	0.973	348	110
Wittenberg	2	7	0.060	2	7	0.060	0.403	0.973	378	110
Notre Dame	1/0	19	0.080	2	7	0.060	0.521	1.258	544	150
Purdue	1/0	19	0.080	1/0	19	0.080	0.521	1.258	600	150
Syracuse	2/0	19	0.080	1	19	0.080	0.565	1.363	671	165
Lafayette	2/0	19	0.080	2/0	19	0.080	0.565	1.363	728	165
Swarthmore	3/0	19	0.080	1/0	19	0.080	0.614	1.483	813	190
Davidson	3/0	19	0.080	3/0	19	0.080	0.614	1.483	885	190
McPherson	4/0	19	0.080	2	7	0.060	0.672	1.621	899	225
Wake Forest	4/0	19	0.080	2/0	19	0.080	0.672	1.621	993	225
Earlham	4/0	19	0.080	4/0	19	0.080	0.672	1.621	1,081	225
Rust	250	37	0.095	3/0	19	0.080	0.747	1.804	1,216	250
Slippery Rock	350	37	0.095	4/0	19	0.080	0.850	2.053	1,563	305
Wofford	500	37	0.095	350	37	0.095	0.980	2.366	2,218	380
Westminster	750	61	0.110	350	37	0.095	1.190	2.873	3,069	470

**Ampacity:** 90°C conductor temperature, 20°C ambient, RHO 90, 100% load factor for three conductor triplex with neutral carrying only unbalanced load. Also available in paralleled construction. The above data is approximate and subject to normal manufacturing tolerances.



## Secondary UD Quadruplex 600V

Aluminum Conductor Cross-linked Polyethylene (XLPE) Insulation, 600V Three Phase with Neutral

Code Word	Phase Conductor			Neutral			Diameter		Approx. Weight	Allowable Ampacities Raceway, (Cable, In Ducts)
	Size	Number of Wires	Insulation Thickness	Size	Number of Wires	Insulation Thickness	Single Phase Conductor	Complete Cable		
	AWG or kcmil		mm	AWG		mm	mm	kg / km		

QUADRUPLEXED WITH TRIPLE SOLID YELLOW STRIPES NEUTRAL										
Tulsa	4	7	1.52	4	7	1.52	8.7	21.1	385	85
Dyke	2	7	1.52	4	7	1.52	10.2	24.7	518	110
Wittenberg	2	7	1.52	2	7	1.52	10.2	24.7	562	110
Notre Dame	1/0	19	2.03	2	7	1.52	13.2	32.0	810	150
Purdue	1/0	19	2.03	1/0	19	2.03	13.2	32.0	892	150
Syracuse	2/0	19	2.03	1	19	2.03	14.3	34.6	998	165
Lafayette	2/0	19	2.03	2/0	19	2.03	14.3	34.6	1,084	165
Swarthmore	3/0	19	2.03	1/0	19	2.03	15.6	37.7	1,211	190
Davidson	3/0	19	2.03	3/0	19	2.03	15.6	37.7	1,317	190
McPherson	4/0	19	2.03	2	7	1.52	17.1	41.2	1,338	225
Wake Forest	4/0	19	2.03	2/0	19	2.03	17.1	41.2	1,478	225
Earlham	4/0	19	2.03	4/0	19	2.03	17.1	41.2	1,609	225
Rust	250	37	2.41	3/0	19	2.03	19.0	45.8	1,810	250
Slippery Rock	350	37	2.41	4/0	19	2.03	21.6	52.1	2,326	305
Wofford	500	37	2.41	350	37	2.41	24.9	60.1	3,301	380
Westminster	750	61	2.79	350	37	2.41	30.2	73.0	4,567	470

**Ampacity:** 90°C conductor temperature, 20°C ambient, RHO 90, 100% load factor for three conductor triplex with neutral carrying only unbalanced load. Also available in paralleled construction. The above data is approximate and subject to normal manufacturing tolerances.