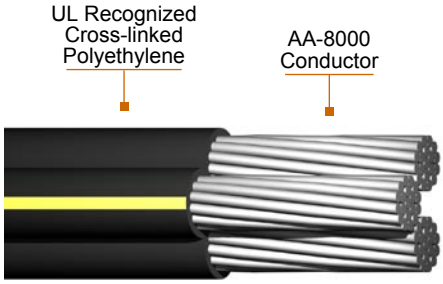
Secondary UD Triple Rated Quadruplex 600V

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



Detail Description or Construction

Conductor

Compact stranded AA-8000 Series aluminum alloy, insulated with Cross-linked Polyethylene (XLPE). Neutrals are identified with triple solid yellow stripes.

Application

The 600V Secondary UD Triple Rated Quadruplex 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, and ideal for underground service entrance (USE) in wet locations.

Standards / Testing Specifications

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

- ASTM B400, B800 and B801.
- UL44 (for RHH / RHW-2) and UL854 (for USE-2).

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

Marking

- **Phase conductors**

UL FILE SIZE (AWG or KCMIL) AA-8000 AL TYPE USE-2 OR RHH OR RHW-2 600V XLPE (UL) (YEAR OF MANUFACTURE) PHASE (A, B OR C).

- **Neutral conductor**

UL FILE SIZE (AWG or KCMIL) AA-8000 AL TYPE USE-2 OR RHH OR RHW-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.

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Code Word	Phase Conductor			Neutral			Diameter		Approx. Weight per	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		lb/1000 ft	
QUADRUPLEXED WITH TRIPLE SOLID YELLOW STRIPES NEUTRAL										
Tulsa	4	7	0.060	4	7	0.060	0.213	0.803	274	85
Dyke	2	7	0.060	4	7	0.060	0.268	0.936	366	110
Wittenberg	2	7	0.060	2	7	0.060	0.268	0.936	397	110
Notre Dame	1/0	19	0.080	2	7	0.060	0.337	1.198	570	150
Purdue	1/0	19	0.080	1/0	19	0.080	0.337	1.198	627	150
Syracuse	2/0	19	0.080	1	19	0.080	0.377	1.295	703	165
Lafayette	2/0	19	0.080	2/0	19	0.080	0.377	1.295	759	165
Swarthmore	3/0	19	0.080	1/0	19	0.080	0.425	1.412	847	190
Davidson	3/0	19	0.080	3/0	19	0.080	0.425	1.412	920	190
McPherson	4/0	19	0.080	2	7	0.060	0.476	1.536	932	225
Wake Forest	4/0	19	0.080	2/0	19	0.080	0.476	1.536	1,029	225
Earlham	4/0	19	0.080	4/0	19	0.080	0.476	1.536	1,120	225
Rust	250	37	0.095	3/0	19	0.080	0.520	1.713	1,264	250
Slippery Rock	350	37	0.095	4/0	19	0.080	0.618	1.950	1,615	305
Wofford	500	37	0.095	350	37	0.095	0.736	2.235	2,282	380
Westminster	750	61	0.110	350	37	0.095	0.906	2.717	3,152	470

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Code Word	Phase Conductor			Neutral			Diameter		Approx. Weight per	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	5.41	20.4	408	85
Dyke	2	7	1.52	4	7	1.52	6.81	23.8	545	110
Wittenberg	2	7	1.52	2	7	1.52	6.81	23.8	591	110
Notre Dame	1/0	19	2.03	2	7	1.52	8.55	30.4	848	150
Purdue	1/0	19	2.03	1/0	19	2.03	8.55	30.4	933	150
Syracuse	2/0	19	2.03	1	19	2.03	9.57	32.9	1,046	165
Lafayette	2/0	19	2.03	2/0	19	2.03	9.57	32.9	1,129	165
Swarthmore	3/0	19	2.03	1/0	19	2.03	10.8	35.9	1,260	190
Davidson	3/0	19	2.03	3/0	19	2.03	10.8	35.9	1,369	190
McPherson	4/0	19	2.03	2	7	1.52	12.1	39.0	1,386	225
Wake Forest	4/0	19	2.03	2/0	19	2.03	12.1	39.0	1,532	225
Earlham	4/0	19	2.03	4/0	19	2.03	12.1	39.0	1,666	225
Rust	250	37	2.41	3/0	19	2.03	13.2	43.5	1,881	250
Slippery Rock	350	37	2.41	4/0	19	2.03	15.7	49.5	2,403	305
Wofford	500	37	2.41	350	37	2.41	18.7	56.8	3,396	380
Westminster	750	61	2.79	350	37	2.41	23.0	69.0	4,691	470

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