

LIST OF MATERIALS
Acceptable for Use on Systems
of USDA Rural Development
Electrification Borrowers

United States Department of Agriculture
Rural Development Utilities Programs
Electric Programs

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DISCLAIMER

*Every effort has been made to ensure the accuracy of this document.
However, in case of discrepancies, records of Technical Standards
Committee "A" are the authoritative source.*

Summary

1. **y-1**
 - a. Added Emcocables
 - i. Emcocables was previously listed in the Technical List of Materials. Columbia is now designated an "Eligible Country" by the U.S. Trade Representative, which qualified Emcocables for published List of Materials
2. **y-2**
 - a. Added Emcocables
 - i. Emcocables was previously listed in the Technical List of Materials. Columbia is now designated an "Eligible Country" by the U.S. Trade Representative, which qualified Emcocables for published List of Materials
3. **af-1**
 - a. Added Aluma-Form, Inc.
 - i. Catalog numbers CPG-15, 25 and CSG-15, 25.
4. **af-1.1**
 - a. Moved the category "Cutout, open-link fuse support" from page af-1 to a separate page.

y – Galvanized Steel Strand

Usage: Guy, Distribution or Transmission Line
Overhead Static Wire

ASTM Specification: A 475 – For Guy Strand
A 363 – For Overhead Static Wire

Following grades/diameters of steel wire strands are preferred sizes:

For Guying

Siemens-Martin Distribution Line	High Strength Dist. or Trans.	Extra High Strength Grade	
		Distribution	Transmission
1/4" dia.	1/4" dia.	1/4" dia.	1/4" dia.
3/8"	9/32"	9/32"	9/32"
7/16"	5/16"	5/16"	5/16"
	3/8"	3/8"	3/8"
	7/16"		7/16"

For Overhead Static Wire (Groundwire)

High Strength	Extra High Strength Grade
3/8" dia.	5/16" dia.
7/16"	3/8"
	7/16"

Alcan Cable
Armco Steel Corporation
Bekaert Steel Wire Corporation
Cal-Wire
Central de Herramientes, S.A. de C.V.
Davis-Walker
DeAcero, S.A. de C.V.
Emcocables
Florida Wire and Cable
Indiana Steel and Wire
Mitchell Industries
National Strand Products
Paulsen Wire and Rope Corporation
Seal Wire Company
Southwire

Note: The buyer should specify Class A, B, or C coating per ASTM A363 or A475.

y - Steel Strand

Aluminum-Clad
Specifications: ASTM B415 and B416

For overhead groundwire

(Joint and splice requirements for wire and strand to meet ASTM A363)
AWG Sizes: (a) 7 No. 10, (c) 7 No. 9, (d) 7 No. 8, (e) 7 No. 7 AWG

Emcocables	(a), (c), (d), (e)
Intral and Company, Ltd.	(a), (c), (d), (e)
Nehring - Conex	(a), (c), (d), (e)
AFL Telecommunications LLC	(a), (c), (d), (e)

For guy strand

(M is rated breaking load in thousand lbs)

M Sizes: 6M (7 No. 12), 8M (7 No. 11), 10M (7 No. 10), 11.5M (7 x .110"), 12.5M (7 No. 9), 14M (7 x .121"), 16M (7 No. 8), 18M (7 x .139"), 20M (7 x .148")

Alumoclad de Mexico, S.A. de C.V.	8M, 10M, 16M
Emcocables	6M, 8M, 10M, 12.5M, 16M, 18M, 20M
Intral and Company, Ltd.	6M, 8M, 10M, 12.5M, 16M, 18M, 20M
Nehring - Conex	8M, 10M, 12.5M, 16M, 18M
AFL Telecommunications LLC	6M, 8M, 10M, 12.5M, 14M, 16M, 18M, 20M

af – Cutouts, Distribution, Open

Manufacturer	Type	Voltage Rating
ABB	ICX	15, 27 kV
	LBU-II	15, 27 kV
Aluma-Form, Inc.	CPG-15 (porcelain)	15 kV
	CPG-25 (porcelain)	25 kV
	CSG-15 (polymer)	15 kV
	CSG-25 (polymer)	25 kV
Cooper Power Systems	S1	15, 27 kV
	L (porcelain)	15, 27 kV
	L (polymer)	15, 27 kV
Hubbell (Chance)	C	15, 27, 35 kV
	C (loadbreak)	15, 27, 35 kV
	C-Polymer	15 kV
	C-Polymer (Loadbreak)	15 kV
Kearney/Cooper Power Systems	HX	15, 27 kV
Power Line Hardware	DHC	15, 27 kV
	SIL (polymer)	15, 27 kV
MacLean Power Systems	XS-Polymer	15, 27 kV
Southern States	Series 66	15, 27 kV
	Series 70	15 kV
United Copper Industries	APD1516100110	15 kV
	APD2712100125	27 kV

NOTE: The buyer should specify the load rating, voltage rating, interrupting rating and required accessories. Cutouts used on underground riser poles should be loadbreak type or have hooks for portable load interrupters.

af - Cutout, open-link fuse support

<u>Manufacturer</u>	<u>Mounting</u>	<u>12.5/7.2 kV 50 amp.</u>	<u>24.9/14.4 kV 50 amp.</u>
Cooper Power Systems	Crossarm Bushing	FT1A2 FT10A3	FT1A4 -
Kearney/Cooper Power Systems	Crossarm Bushing	6484-55 6483-59	- -

NOTE: The open link fuse supports listed above are fuse supports only and have no inherent interrupting capacity. They should be used with fuse links capable of interrupting at least 1200 amperes and for transformer protection only.