



INSULATOR INFORMATION

SYSTEM VOLTAGE	INSULATOR VOLTAGE
12.4 KV	13.2 KV
13.2 KV	13.2 KV
24.9 KV	25 KV

NOTES:

- SEE 800 SERIES UNITS FOR GROUNDING INSTALLATIONS.
- WHEN A CUTOUT IS REQUIRED TO PROTECT THE TAP LINE CONDUCTOR, PLACE LATERAL FUSE CUTOUT ON CROSSARM AS INDICATED. (SEE 700 SERIES DRAWINGS)
- WHEN USING LARGE BRACES FOR SMALL CONDUCTOR REFER TO DRAWING 302-B FOR BRACE DIMENSIONS. (DESIGN) USE CU 310-LB.
- IN PRIMARY AREA BOND ALL METAL LESS THAN 3" APART.

ITEM	QTY.	MATERIAL	STOCK NO.
A	4	INSULATOR, PIN TYPE, F-NECK (SEE TABLE)	0048xxxx
C	3	BOLT, MACHINE, STEEL, GALV., SQUARE HEAD, W/NUT, 5/8" (REQUIRED SIZE)	002058xx
D	24	WASHER, SQUARE, GALVANIZED, 2-1/4" X 2-1/4" X 3/16"	00222200
G	2	EYELET, EXTRA LONG STANDARD 5/8"	00185803
I	6	NUT, EYE OVAL 5/8"	00185800
J	6	BOLT, DA 5/8" X (REQUIRED SIZE)	002068xx
M	4	CONNECTOR, PARALLEL (AS REQUIRED)	0042xxxx
P	8	CLAMP, DEAD END PRIMARY STRAIGHT	0042xxxx
R	4	CROSSARM SINGLE WOOD, 8"	00120084
V	4	SCREW, LAG 1/2" X 4-1/2"	00201245
W	4	ARM PIN, 5-3/4" SHANK	00245857
DD	16	WASHER, DOUBLE COIL SPRING, LOCK, ZINC, 5/8"	00220003
DE	4 pr.	BRACE, CROSSARM WOOD 26" LENGTH	00161230
DF	8	BOLT, CARRIAGE 3/8" X 1-1/2"	00203845
HT	6	INSULATOR, SUSPENSION 15kV/35kV	0048xx12
LH	2 PR.	TIE, DOUBLE TOP, DISTRIBUTION, F-NECK, (REQUIRED SIZE)	0040xxxx
MC	1	GAIN, CROSSARM	00120005

BH
Black Hills Corporation

DISTRIBUTION STANDARDS
DRAWING #
310

PRIMARY SYSTEM, 3 PHASE, GROUNDED WYE,
BUCKARM CORNER
MAXIMUM CONDUCTOR SIZE - 2/0 ACSR

DSGN	REVISION DATE	REVISION NO.	APPROVED BY	DATE
DR	DH		MC	12/31/09

Example standards dwg.