UNITED STATES DEPARTMENT OF AGRICULTURE
Rural Utilities Service
Technical Standards Committee “A”

Supplement No. 1, October 2001, to
RUS Informational Publication 202-1,
List of Materials Acceptable for Use on
Systems of RUS Electrification Borrowers

The attached pages dated October 2001, for the “List of Materials Acceptable for Use on Systems of RUS Electrification Borrowers” are those which have been revised by action of the Technical Standards Committees during the months of July through September, 2001. They replace pages dated July 2001. The following changes should be made in order to keep RUS Informational Publication 202-1 up to date.

Remove Old Page	Add New Page
a-1:a(1) Cond.	a-1:a(1) Cond.
u-2:u:3	u-2:u:3
aw-1:ax-1	aw-1:ax-1
bz(2) Cond.:cg-1	bz(2) Cond.:cg-1
ck-1:cm-1	ck-1:cm-1
dz-1:ea-1	dz-1:ea-1
ga-1:ga-2	ga-1:ga-2
ga-3:ga-4	ga-3:ga-4
--	ga(2.1) Cond.:[BLANK]
gb-1:gb-1.1	gb-1:gb-1.1
gb-1.2:gb-1.3	gb-1.2:gb-1.3
gz-2:rp(1) Cond.	gz-2:rp(1) Cond.

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a - Insulator, pin type

ANSI Class	55-2	55-3	55-4
Application	5 kV	12.5/7.2 kV and 13.2/7.62 kV systems	12.5/7.2 kV and 13.2/7.62 kV systems (where greater insulation is needed)
Pinhole diameter	1 in.	1 in.	1 in.
Porcelain Products (Knox)[2]	253	261-S	366-S
Victor Insulators, Inc.	8	5	6

ANSI Class	56-1	56-3	56-4
Application	24.9/14.4 kV distribution lines	33 - 34.5 kV transmission lines	44 - 46 kV transmission lines
Pinhole diameter	1-3/8 in. Metal thimble (unless noted)	1-3/8 in. Metal thimble	1-3/8 in. Metal thimble
Porcelain Products (Knox)[2]	1027-S	2045-S	-
Victor Insulators, Inc.	27-R[1]	245-R	255-R

[1]Does not have a metal thimble.
[2]ANSI class 55-2, 55-3, 55-4, and 56-1 pin insulators manufactured at both the Knoxville and Macomb plants are acceptable.

Conditional List
a(1)
October 2001

a - Insulators, pin type

Manufacturer	Conditions
*Porcelain Products 1027-ST, 24.9/14.4 kV, ANSI Class 56-1	To obtain experience.

*Does not have metal thimble.

u - Deadend for galvanized steel guy strand

Strand Size:	1/4"	9/32"	5/16"	3/8"	7/16"
		Automatic			
MacLean (Reliable)					
Bail for thimble eye	5100	5201	5201	5102	5103
Bail for guy insulator	5150	5251	5251	5152	5153
		Formed Type			
Alcoa					
For standard guy*	SGG-610	SGG-710	SGG-0790	SGG-0915	SGG-11-5
Dulmison					
For standard guy*	SGG-0610	SGG-710	SGG-0790	SGG-0915	SGG-1105
Florida Wire & Cable					
For standard guy*	FLA 1300	FLA 1400	FLA 1500	FLA 1600	FLA 1700
Helical Line Products					
For standard guy*	HG-207-1/4"	HG-208-9/32"	HG-209-5/16"	HG-210-3/8"	HG-211-7/16"
Hubbell (Chance)					
For standard guy*	1/4 CTLG	9/32 CTLG	5/16 CTLG	3/8 CTLG	7/16 CTLG
For wrapped guy	1/4 GSC-C	9/32 CTLG-C	5/16 GSC-C	3/8 GSC-C	7/16 GSC-C
Payer Industries					
For standard guy*	25-GNBS		30-GNBS	35-GNBS	38-GNBS
Preformed Line Products					
For standard guy*	GDE-1104	GDE-1105	GDE-1106	GDE-1107	GDE-1108
For wrapped guy	WGL-2100	WGL-2101	WGL-2102	WGL-2103	WGL-2104

*Class B galvanizing. When guy wire has Class C galvanizing, formed deadend should also have Class C galvanizing.

u - Deadend for aluminum clad steel guy strand

Strand Size	3#10 (4M)	7#12 (6M)	7#11 (8M)	7#10 (10M)	7X.110" (11.5M)	7#9 (12.5M)	7X.121" (14M)	7#8 (16M)	7X.148" (20M)
Formed Type Aluminum-Clad Steel Guy Strand									
Dulmison									
For standard guy	AWGG 0555	AWGG 0600	AWGG 0685	AWGG 0770	AWGG 0825	AWGG 0870	AWGG 0905	AWGG 0965	AWGG1125
Helical Line Products									
For standard guy		HG517-6M	HG519-8M	HG521-10M		HG523-12.5M	HG524-14M	HG525-16M	HG528-20M
Hubbell (Chance)									
For standard guy		6M-AWTLG	8M-AWTLG	10M-AWTLG		12.5M-AWTLG			
Preformed Line Products									
For standard guy	AWDE-4108	AWDE-4110	AWDE-4113	AWDE-4116	AWDE-4118	AWDE-4119	AWDE-4120	AWDE-4122	AWDE-4126
For wrapped guy		WGL-4110	WGL-4113	WGL-4116		WGL-4120			
Automatic Aluminum-Clad Steel Guy Strand									
Hubbell (Fargo)		GDE-300	GDE-301	GDE-301		GDE-302			
MacLean (Reliable)		5200	5201	5201		5202			

aw - Washer, Spring

1/4" x 1-3/4" x 3-1/2"

	Bolt Size		
Manufacturer	5/8"	3/4"	7/8"
Cooper Power Systems	DF17W3	DF17W4	DF17W5
Hubbell (Chance)	3540	3541	--
Joslyn	J3540	J3541	J3542
Kortick	K2909	--	--
Line Hardware	SCW-58	SCW-34	SCW-78

ax - Cutout and Arrester, Combination

Nominal System Voltage		For 12.5Y/7.2 kV			For 13.2Y/7.6 kV		For 24.9Y/14.4 kV	
Cutout Max. Voltage Rating		7.8 kV		15 kV	15 kV		18 kV	27 kV
Application		1øTrans.	1øSect.	3øBank 3øSect.	1øTrans.	3øBank 3øSect. 1øSect.	1øTrans.	3øBank 3øSect. 1øSect.
Cutout Current Rating		50*	100	100	50*	100	50*	100
Manufacturer	Type Mounting	Catalog Numbers						
ABB	Crossarm		7.8 NCX/9 LVG	15 NCX/10 LVG		15 NCX/10 LVG		24.9 NCX/18 LVG
	Crossarm (L)		7.8 LBU-II/9 LVG	15 LBU-II/10 LVG		15 LBU-II/10 LVG		24.9 LBU-II/18 LVG
Cooper	Crossarm (L)		AFZS510B Series	AFZS510C Series		AFZS510C Series		AFZS518D Series
	Transformer	AFZS110M010			AFZS110M010		AFZS110M018	
	Crossarm		L4A1P1A00-BDOA	L4A1P1A00-BDOA		L4A1P1A00-BDOA		L9CAP1A00-BGOA
Hubbell (Chance)	Crossarm		C7 Series	C7 Series		C7 Series		C7 Series
	Transformer							
Kearney/Cooper Power Systems	Crossarm			KE3AB110E-110		KE4AB110E-110		KE7BD109E-110
	Transformer	294072			294073		294074	

Either normal duty or heavy duty distribution class arresters listed on page ae-1 are acceptable for use with these combination units.

*These cutouts have open links and must not be used where fault currents are high or for sectionalizing.

(L) Indicates loadbreak type is available.

bz - Switch, vacuum
(For capacitor switching)

Manufacturer	Conditions
Joslyn Capacitor vacuum switch, VerSaVac, 200 Amp, 95 or 125 kV BIL, single-phase or three-phase for use on 15 kV systems	1. To obtain experience. 2. Single-phase switch rated 125 kV BIL may be used on single- phase taps of 24.9/14.4 kV multi-grounded wye systems. 3. Three-phase switch requires special mounting bracket.

cg - Switch, air, three-pole, group-operated
NEMA standard switches for station and line structures

Manufacturer	Acceptable Mounting on Structures	Tilting Ins. Type	Tilting Ins. kV	Vertical Break Type	Vertical Break kV	Side Break Type	Side Break kV	Center Break Type	Center Break kV	Double Break Type	Double Break kV
ABB	Horizontal			TTR6	345						
	Horizontal			TTR8	15-230						
G & W Electric Co.	Horizontal			MK-40	15-69	PMB-40A	15-69	LPC	69-230		
Hubbell (Chance)	Horizontal			D6(L)	15-34.5						
	Phase over Phase			D6(L)	15-34.5						
	Vertical			D6(L)	15-34.5						
Johnson	Horizontal			VIP	15-230	LS	15-69	M	15-230		
Joslyn (Hi-Voltage)	Horizontal			RF-2(VL)	15-230	RB-1(VL)	15-25				
	Horizontal					RB-1*	15-115				
Kearney/Cooper Power Systems	Horizontal	AR 60-P	15-69								
MEMCO	Horizontal	AgF	15-69	EA	15-345			EE	69-230		
	Horizontal	AgC	15-69			RI4-C	I5-46				
MORPAC (Morgan)	Horizontal			VBV (VL)	15-230			CBV	15-230		
	Vertical			VBV (VL)	15-230			CBV	15-230		
	Phase over Phase							CBV	15-25		
Royal Switchgear	Horizontal							V	15-230		
	Phase over Phase							V	15-23		

(L) Means gas or solid material full-load interrupters are accepted and available.

(VL) Means vacuum full-load interrupters are accepted and available.
*These switches may be purchased with reduced voltage vacuum interrupters and may be applied for loop sectionalizing duty when peak recovery voltage does not exceed 25 kV

NOTE: Phase-over-phase mounted switches are not acceptable above 25 kV class unless equipped with full-load interrupters. Switches of 15 kV and 25 kV classes with individual phases mounted on wood crossarms or poles must be supplied with insulated interphase and control rods.

ck - clamp, anchor rod bonding

For Standard and Drive Type Rods

Diam. of Rod	Type of Eye	5/8"	3/4"	1"
C & R Products	Single	CRBC-1	CRBC-1	CRBC-1
	Twin	CRBC-2	CRBC-2	CRBC-2
	Triple	-	CRBC-3	CRBC-3
Cooper Power Systems	Single	DA1B1	DA1B1	DA1B1
	Twin	DA2B1	DA2B1	DA2B1
Dixie	Single	D3143	D3143	D3143
	Twin	-	D3144	D3144
	Triple	-	D3145	D3145
Hubbell (Chance)	Single	G5060	G5060	G5060
	Twin	G5061	G5061	G5061
	Triple	-	G5063	G5063
Joslyn	Single	3230	3230	3230
	Twin	3231	3231	3231
	Triple	-	3233	3233
Kortick	Single	K3147	K3147	-
	Twin	-	K3148	K3148
	Triple	-	K3149	K3149
Line Hardware	Single	RBC-100	RBC-100	RBC-100
	Twin	RBC-200	RBC-200	RBC-200
	Triple		RBC-300	RBC-300
MacLean (Continental)	Single	UCG5060	UCG5060	-
	Twin	-	UCG5061	UCG5061
	Triple	-	UCG5063	UCG5063

For Power Installed Screw Anchors

C & R Products	Single	CRBC-4	CRBC-5	-
Hubbell (Chance)	Single	G5067	G5068	-
Joslyn	Single	J26714	J26715	-
Line Hardware	Single	RBC-400	RBC-500	-

cm - Insulator, Spool

Type:	Secondary (Wet Process)		Service: Wet Process	Service: Dry Process
Groove Diameter:	1-3/4"	3"	1-3/8"	1-3/8"
ANSI Class	53-2	53-4	53-1	NA
Cooper Power Systems	DE4S3	DE5S3	DE2S2	DE2S1
Hughes	2102	-	-	-
Joslyn	-	J0101A	J150A	J100A
Kortick	K516	K522	K513	K514
Porcelain Products (Knox)	5101	5119	5107	5207
Universal	1082	-	-	-
MacLean (Continental)	U205	U31221	U208	U207
Victor Insulators, Inc.	2012	2026	2011	-

dz - Clip, Guy Wire

Manufacturer	5/16"	3/8"	7/16"	1/2"
Cooper Power Systems	DJ17C6	DJ17C8	DJ17C10	DJ17C12
Hubbell (Chance)	6453	6454	6455	6456
MacLean (Continental)	U4953	U4954	U4955	U4956

ea - Insulator and stud, post type, vertical

DISTRIBUTION (RUS Minimum Requirements)

System voltage, kV	12.5/7.2	12.5/7.2	24.9/14.4
Leakage, inches	7-1/2	10	15
Cantilever strength (pounds)	1875	1875	1875
Flashover, dry, kV	65	70	95
Flashover, wet, kV	40	50	65
Lapp			
7" Stud	4415P	4420P	4427P
1-3/4" Stud	4315P	4320P	4327P
Newell Porcelain			
7" Stud	-	43570-7040	47101-7040
1-3/4" Stud	-	43570-7010	47101-7010
Porcelain Products (Knox)			
7" Stud	5115-6510	5120-6510	5127-6510
1-3/4" Stud	5115-6500	5120-6500	5127-6500

DISTRIBUTION or TRANSMISSION

ANSI Class	57-2	57-3	57-4
System voltage, kV	22	34.5	46
Lapp			
7" Stud	9435	9445	9455
1-3/4" Stud	9335	9345	9355
Newell Porcelain			
7" Stud	37620-7040	41640-7040	41650-7040
1-3/4" Stud	37620-7010	41640-7010	41650-7010
Porcelain Products (Knox)			
7" Stud	5135-6512	5145-6512	-
1-3/4" Stud	5135-6502	5145-6502	-

ga - Watthour and Watthour-Demand Meters
1ø 2 and 3 wire or 2/3 wire 120/240 volts

(Classes 100, 200, 10, and 20)

Self-Contained Types

Manufacturer 1	Type of Base 2	Watthour Meter Type 3	Mechanical Demand Watthour Type 4	Thermal Demand Watthour Type 5	Number of Terminals 6
ABB	Bottom Con.	-	-	-	-
	Socket	AB1	-	-	4
General Electric	Bottom Con.	I50A	IM50A	-	4
	Socket	I70S	IM70S	-	4
Landis & Gyr	Bottom Con.	-	-	-	-
	Socket	MS	BMS-2S	TMS	4
Schlumberger	Bottom Con.	J5SA	J5DSA	-	-
	Socket	J5S*	J5DS	-	4

Transformer Rated Types

ABB	Bottom Con.	-	-	-	-
	Socket	AB1	-	-	5 or 6
General Electric	Bottom Con.	I50A	IM50A	-	5 or 6
	Socket	I70S	IM70S	-	5 or 6
Landis & Gyr	Bottom Con.	-	-	-	-
	Socket	MS	BMS	TMS	5 or 6
Schlumberger	Bottom Con.	J5SA	J5DSA	-	-
	Socket	J5S	J5DS	-	5 or 6

* Type J4ES for Class 320

ga - Watthour and Watthour-Demand Meters

Polyphase 2 element - 3 wire, 240 volts - Delta and 120/208 Volts Network

(Classes 100, 200, 10, and 20)

Self-Contained Types

Manufacturer	Type of Base	Watthour Meter Type	Mechanical Demand Watthour Type	Thermal Demand Watthour Type	Number of Terminals
1	2	3	4	5	6
ABB	Bottom Con.	-	-	-	-
	Socket	ABS-5	-	-	-
General Electric	Bottom Con.	V62A	VM62A	-	5
	Socket	V62S	VM62S	-	-
Landis & Gyr	Bottom Con.	-	-	-	-
	Socket	MT012S or 13S	BMT-12S or 13S	TMT-12S	5 or 8
Schlumberger	Bottom Con.	SL2A	SL2DA	-	5 or 8
	Socket	SL2S	SL2DS	-	-
		SL12S	SL12DS		

Transformer Rated Types

ABB	Bottom Con.	ABA-2	-	-	-
	Socket	ABS-2	-	-	8
General Electric	Bottom Con.	V63A	VM63A	-	8
	Socket	V63S	VM63S	-	-
Landis & Gyr	Bottom Con.	MT-5A	BMT-5A	TMT-5A	8
	Socket	MT-5S	BMT-5S	TMT-5S	8
Schlumberger	Bottom Con.	SL3A	SL3DA	-	-
	Socket	SL3S	SL4DS	-	8

ga - Watthour and Watthour-Demand Meters

Polyphase 2 element - 4 wire Delta - 120/240 volts

(Classes 100 or 200)

Self-Contained Types

Manufacturer	Type of Base	Watthour Meter Type	Mechanical Demand Watthour Type	Thermal Demand Watthour Type	Number of Terminals
1	2	3	4	5	6
ABB	Bottom Con.	ABA-7	-	-	7 or 8
	Socket	ABS-7	-	-	-
General Electric	Bottom Con.	V66A	VM66A	-	7
	Socket	V66S	VM66S	-	-
Landis & Gyr	Bottom Con.	-	-	-	-
	Socket	MT-15S	BMT-15S	TMT-15S	7
Schlumberger	Bottom Con.	SL6A	SL6DA	-	-
	Socket	SL6S	SL6DS	-	7 or 8

ga - Watthour and Watthour-Demand Meters

Polyphase - 2-1/2 element - 4 wire wye - (120/208) (277/480) volt

(Classes 100, 200, 10, and 20)

Self-Contained Types

Manufacturer	Type of Base	Watthour Meter Type	Mechanical Demand Watthour Type	Thermal Demand Watthour Type	Number of Terminals
1	2	3	4	5	6
ABB	Bottom Con.	ABA-8	-	-	-
	Socket	ABS-8	-	-	-
General Electric	Bottom Con.	V65A	VM65A	-	7
	Socket	V65S	VM65S	-	-
Landis & Gyr	Bottom Con.	-	-	-	-
	Socket	MT-14S	BMT-14S	TMT-14S	7
Schlumberger	Bottom Con.	SL5A	SL5DA	-	-
	Socket	SL5S	SL5DS	-	7 or 8
Transformer Rated Types					
ABB	Bottom Con.	ABA-8	-	-	-
	Socket	ABS-8	-	-	13
General Electric	Bottom Con.	V65A	VM65A	-	7 or 13
	Socket	V65S	VM65S	-	-
Landis & Gyr	Bottom Con.	MT-6A	BMT-6A	TMT-6A	10
	Socket	MT-7S or 6S	BMT-7S or 6S	TMT-7S or 6S	7 or 13
Schlumberger	Bottom Con.	SL5A	SL5DA	-	-
	Socket	SL5S	SL5DS	-	13

ga - Watthour and Watthour-Demand Meters
Solid State Registers

Manufacturer	Conditions
<u>Siemens</u>	
Altimus Solid State Meter	To obtain experience.
Form 1S, Class 100	
Form 25S, Class 200	
Form 2S, Class 200TA30 and 200TA50	
Form 2SE, Class 320TA30 and 320TA50	
Form 2K, Class 480/600	
Form 3S, 4S, Class 10 and 20	
S4 Polyphase Solid State Meter	
Form 5S/45S, 6S/36S, 9S/8S, Class 20	
Form 12S, 16S, Class 200	

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gb - Meter Sockets

Manufacturer	Type or Catalog Number: Ring	Type or Catalog Number: Ringless	No. Jaws	Rating Amps.
ABB	#S		4, 5, 6	100
	STS		5, 6	200/400** 1ø3w
	STS-2		8	200/400** 3ø3w
	STS-3		13	200/400** 3ø4w Y or Delta
	STS-7		8	200/400** 3ø4w Delta
	STS-8		8 or 13	200/400** 3ø4w Y
		STA-2		200/400 3ø3w
		STA-3		200/400 3ø4W Y or Delta
		STA-7		200/400 3ø4w Delta
		STA		200/400 1ø3w
# Anchor	1000 Series (1003-1006)	1000 Series (1003-1006)	4, 5	100
	1100 Series (1100-1109)	1100 Series (1100-1109)	4, 5, 7	150
	1200 Series (1201-1209)	1200 Series (1201-1209)	4, 5	200
		1200/1300 Series (1275-1300)	4, 5, 7	200
	1600 Series (1600-1661)	1600 Series (1600-1661)	4, 5	320
	1500 Series (1500-1526)	1500 Series (1500-1526)	4, 5	100/125 per sta.
	1500 Series (1530-1536)	1500 Series (1530-1536)	4, 5	150 per sta.
	1500 Series (1540-1546)	1500 Series (1540-1546)	4, 5	200 per sta.
	1400 Series (1405-1473)	1400 Series (1405-1473)	4, 5, 6, 7, 8, 13	20/100
Murray	SJ Series* (Single)	RJ Series* (Single)	4, 5, 6	100
	SN Series* (Single)	RN Series* (Single)	4, 5, 6	100
	SS Series* (Single)	RS Series* (Single)	4, 5, 6	200
		RH Series* (Single)	5, 7	200 HD

#Available with UL label
*UL label

gb - Meter Sockets

Manufacturer	Type or Catalog Number: Ring	Type or Catalog Number: Ringless	No. Jaws	Rating Amps.
Durham	R-RS512	RS502#	4 or 5	150
	R-RS502		RS512#	
		H-4300 Series#	4, 5, 7	320
		H-5300 Series#		
		H-7300 Series#		
	RS101-RS111#	RS101-RS111#	4 or 5	100
	2R1121-6R1131#	2R1121-6R1131#		
	2R1421-6R1431#	2R1421-6R1431#		
	RS202#	RS202#	4 or 5	200
	RS212, RS213#	RS212, RS213#	4 or 5	200
	RS220-RS233#	RS220-RS233#		
	2R2332-6R2392#	2R2332-6R2392#		
Dyna-Tech	Overhead			
	1100-C - 1107-C	1000-C - 1007-C	4 & 5	100
	1300-C - 1307-C	1200-C - 1207-C	4 & 5	100
	2100-CH-2107-CH	2000-CH-2007-CH	4 & 5	200
	2300-CH-2307-CH	2200-CH-2207-CH	4 & 5	200
	Underground			
		2590-CHU-2597-CHU	4 & 5	200
		2790-CHU-2797-CHU	4 & 5	200
		2090-CHU-2097-CHU	4 & 5	200
		2290-CHU-2297-CHU	4 & 5	200
General Switch	42100 Series*		4, 5, 6	100

*UL Label
#Available with UL label

gb - Meter Sockets

Manufacturer	Type or Catalog Number: Ring	Type or Catalog Number: Ringless	No. Jaws	Rating Amps.
Landis & Gyr	Overhead			
	AS Series	AS Series	4, 5, 6	100-200
		A2 thru A6	4, 5	100-200
		Series (Multiple Mounting)		
		CQ#	4, 5, 7	200
		HQ#	4, 5, 7	200 HD
		HQ-T	6, 7, 8, 13	20
	Underground			
		RSU#	4, 5, 6	200
		CQ-U#	4, 5, 7	200
		HQ-U#	4, 5, 7	200
Milbank	Overhead			
		S7462, 3,4,5,6		
		U7362*, 3,4,5,6	4 or 5	100
	S7486 Series	R7486 Series*	4 or 5	100
	S7262 Series	U7262 Series*	4 or 5	150
	S7021 Series	U7021 Series*	4 or 5	200
	S9550 Series	U9550 Series*	4 or 5	200 (HD)
	S9700 Series	U9700 Series*	7	200 (HD)
	Underground			
	S8086-XL	U8086-XL*	4 or 5	100
	S8084-XL	U8084-XL*	4 or 5	150
	S7040-XL	U7040-XL*	4 or 5	200
	S9551-XL	U9551-XL*	4 or 5	200 (HD)
	S9701-XL	U9701-XL*	7	200 (HD)

Available with UL label
*UL label

gb - Meter Sockets

Manufacturer	Type or Catalog Number: Ring	Type or Catalog Number: Ringless	No. Jaws	Rating Amps.
Superior	Overhead			
		501	4, 5	100
	314*	414*	4, 5	150
	314*	414*	4, 5	200
		452 Series	4, 5	150 per sta.
	382 Series	482 Series*	4, 5	200 per sta.
		492 Series	7	200 3ø4w Y or Delta per sta.
		RLK Series*	5, 7	200 3ø4W Y or Delta 600 V
	Underground			
Superior	314*	414*	4, 5	100
		414*	4, 5	150
		414	7	200 3ø4w Y or Delta
		"RLPK" Series	5, 7	200 3ø4w Y or Delta 600 V
		BRL 1915	4, 5	150 per sta.

#Available with UL label
* UL label
** Transformer rating in first figure; maximum loading shown by second figure

gz - Crossarm Assembly for Wishbone Construction, "Z" Type (Double Arm)

Applicable Specification: RUS Specification T-5

Applicable Drawings: RUS Drawings TSZ-2,

3-5/8" x 5-5/8" wood crossarm assembly complete with brace and attaching hardware, fittings and bolts

The following manufacturers have shown compliance with the applicable specifications for this assembly:

Manufacturer	Catalog Nos. or Drawing Nos.
Brooks (2)	64Z2
Hughes Brothers	C-3162-B and C-3162.10

(2) Adjustable spacers are available.

rp - Wildlife Guards

Bushings and Live Parts Covers

Manufacturer	Conditions
Hendrix Wire & Cable	To obtain experience
Catalog No. BG-9	
Kaddas Enterprises Inc.	To obtain experience
Catalog No. KE1045A* birdguard	
Catalog No. KE1066* arrester cap	
Catalog No. KE1077* transformer bushing cover	
Catalog No. KE1053* arrester cap	
Catalog No. KE1064* transformer bushing cover	
Catalog No.KE 1049* birdguard	

NOTE: The material composition of these items does not contain a flame-retardant unless specified by the manufacturer.

*Specified by manufacturer as being flame-retardant