



SECTION 2 COUPLERS

SUBSTATION CONNECTORS - 230KV AND BELOW



COUPLERS

PLP **Substation Connectors Couplers** for 230kV and below are designed for connecting two ends of bus tube or stranded conductor. All contact faces are manufactured to maximize contact surface area and provide a superior installed fit.

FEATURES AND BENEFITS

- Complete range of sizes for connecting most standard bus tube or stranded conductor
- Solutions for bolted, compression, and weldment applications
- Available in aluminum and bronze, with tin plating capabilities for both materials
- Custom design solutions available to secure your most challenging connections

HE-A

Aluminum Bolted Coupler Straight Tube to Tube 230kV and Below

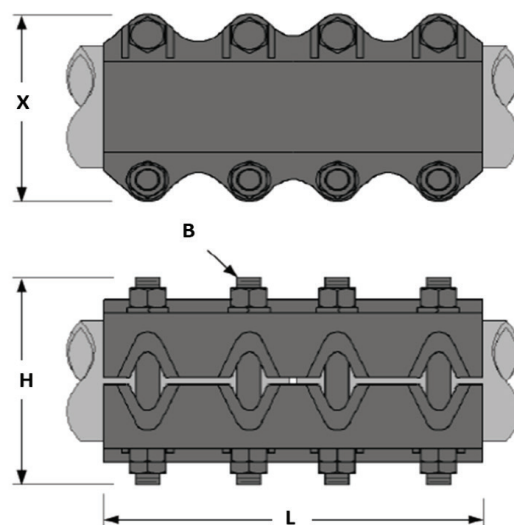
Aluminum alloy coupler to connect two bus tubes of the same diameter. Electrical joint compound is recommended for all tube contact surfaces.

CASTINGS: Aluminum Alloy

HARDWARE: Galvanized Steel

See page 172 for special order options such as tin plating, hardware materials and specific angles. Contact PLP for further details, unlisted option and/or special applications.

Example: HE36A36A with Stainless Steel Hardware would be HE36A36A-SS



Part Number	NPS Tube Diameter	Dimensions			
		in (mm)			
		H	L	B	X
HE36A36A	1/2	3.07 (78)	6.26 (159)	1/2 (13)	2.60 (66)
HE37A37A	3/4	3.82 (97)	6.85 (174)	1/2 (13)	2.80 (71)
HE38A38A	1	3.82 (97)	7.24 (184)	1/2 (13)	3.07 (78)
HE39A39A	1-1/4	3.23 (82)	7.76 (197)	1/2 (13)	3.43 (87)
HE40A40A	1-1/2	4.13 (105)	8.46 (215)	1/2 (13)	3.78 (96)
HE41A41A	2	5.00 (127)	8.98 (228)	5/8 (16)	4.53 (115)
HE42A42A	2-1/2	5.83 (148)	9.41 (239)	5/8 (16)	5.00 (127)
HE43A43A	3	6.30 (160)	9.96 (253)	5/8 (16)	5.43 (138)
HE44A44A	3-1/2	5.91 (150)	11.30 (287)	5/8 (16)	6.14 (156)
HE45A45A	4	6.50 (165)	12.24 (311)	5/8 (16)	6.69 (170)
HE46A46A	4-1/2	6.38 (162)	13.43 (341)	5/8 (16)	7.17 (182)
HE47A47A	5	6.97 (177)	14.45 (367)	5/8 (16)	7.72 (196)
HE49A49A	6	8.39 (213)	16.42 (417)	5/8 (16)	8.78 (223)

HL-A

Aluminum Bolted Coupler 90-Degree Tube to Tube 230kV and Below

Aluminum alloy coupler to connect two bus tubes of the same diameter. Electrical joint compound is recommended for all tube contact surfaces.

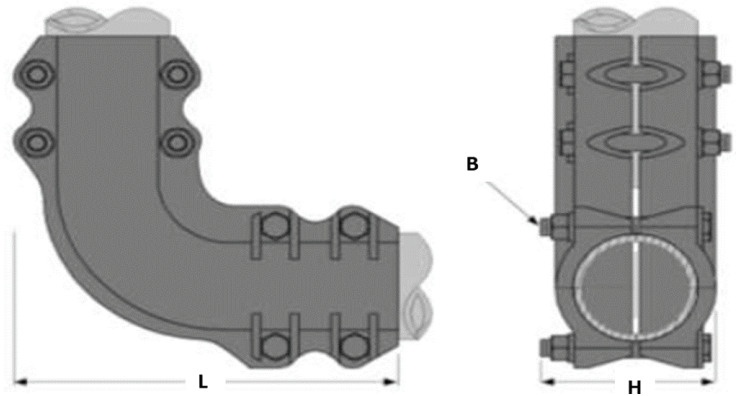
Different angles available upon special request.

CASTINGS: Aluminum Alloy

HARDWARE: Galvanized Steel

See page 172 for special order options such as tin plating, hardware materials and specific angles. Contact PLP for further details, unlisted option and/or special applications.

Example: HL37A37A with Stainless Steel Hardware would be HL37A37A-SS



Part Number	NPS Tube Diameter	Dimensions		
		in (mm)		
		H	L	B
HL37A37A	3/4	3.31 (84)	5.91 (150)	1/2 (13)
HL38A38A	1	3.31 (84)	6.57 (167)	1/2 (13)
HL39A39A	1-1/4	2.95 (75)	7.09 (180)	1/2 (13)
HL40A40A	1-1/2	3.78 (96)	7.68 (195)	1/2 (13)
HL41A41A	2	4.41 (112)	9.06 (230)	5/8 (16)
HL42A42A	2-1/2	4.80 (122)	9.72 (247)	5/8 (16)
HL43A43A	3	5.43 (138)	10.39 (264)	5/8 (16)
HL44A44A	3-1/2	5.59 (142)	11.65 (296)	5/8 (16)
HL45A45A	4	6.18 (157)	12.76 (324)	5/8 (16)
HL46A46A	4-1/2	6.38 (162)	13.50 (343)	5/8 (16)
HL47A47A	5	6.97 (177)	14.33 (364)	5/8 (16)
HL49A49A	6	8.39 (213)	16.38 (416)	5/8 (16)

HL-A

Aluminum Bolted Coupler 90-Degree Cable to Cable 230kV and Below

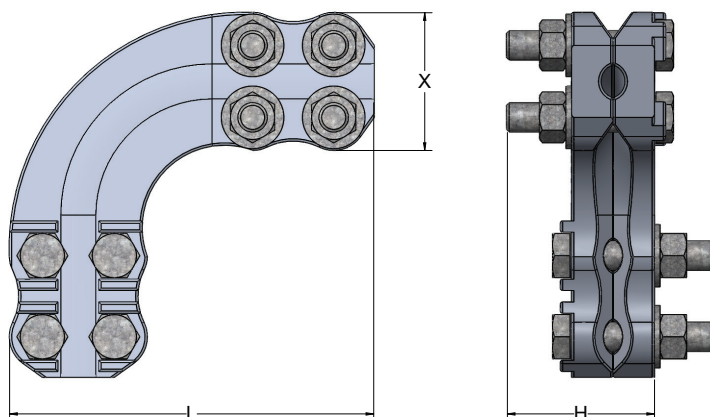
Aluminum alloy 90-degree coupler to connect two cables of the same diameter. Electrical joint compound is recommended for all cable contact surfaces. Different angles available upon special request.

CASTINGS: Aluminum Alloy

HARDWARE: Galvanized Steel

See page 172 for special order options such as tin plating, hardware materials and specific angles. Contact PLP for further details, unlisted option and/or special applications.

Example: HL14A14A with Stainless Steel Hardware would be HL14A14A-SS.



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COUPLERS

Part Number	Cable AWG/MCM				Dimensions		
	AAC	AAC Diameter	ACSR	ACSR Diameter	in (mm)		
		in (mm)		in (mm)	H	L	X
HL14A14A	250 - 266	0.575 - 0.593 (14.6 - 15.1)	4/0 (6/1) - 203 (16/19)	0.563 - 0.714 (14.3 - 18.1)	2.52 (64)	5.00 (127)	2.36 (60)
HL17A17A	397 - 400	0.724 - 0.728 (18.4 - 18.5)	203 (16/19) - 336 (30/7)	0.714 - 0.741 (18.1 - 18.8)	2.83 (72)	5.98 (152)	2.68 (68)
HL19A19A	450 - 500	0.772 - 0.814 (19.6 - 20.7)	397 (24/7) - 477 (18/1)	0.772 - 0.814 (19.6 - 20.7)	2.83 (72)	5.98 (152)	2.68 (68)
HL21A21A	550 - 600	0.855 - 0.893 (21.7 - 22.7)	477 (30/7)	0.883 (22.4)	2.83 (72)	5.98 (152)	2.68 (68)
HL28A28A	900 - 1000	1.094 - 1.209 (27.8 - 30.7)	795 (24/7) - 874 (54/7)	1.092 - 1.146 (27.7 - 29.1)	3.31 (84)	6.77 (172)	3.19 (81)
HL29A29A	1192 - 1351	1.259 - 1.340 (32.0 - 34.0)	1033 (54/7) - 1192 (45/7)	1.245 - 1.302 (31.6 - 33.1)	3.31 (84)	6.77 (172)	3.19 (81)

HHE-A

Aluminum Bolted Coupler Straight Tube to Tube Reducer 230kV and Below

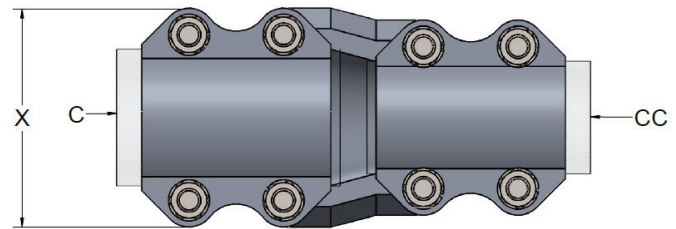
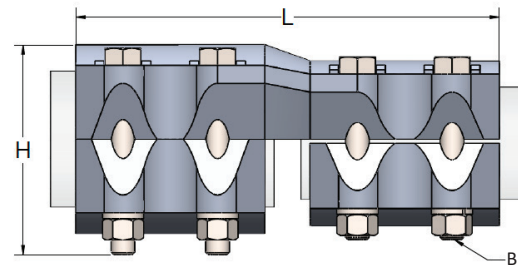
Aluminum alloy straight coupler to connect aluminum bus tubes of different diameter. Electrical joint compound is recommended for all tube contact surfaces.

CASTINGS: Aluminum Alloy

HARDWARE: Galvanized Steel

See page 172 for special order options such as tin plating, hardware materials and specific angles. Contact PLP for further details, unlisted option and/or special applications.

Example: HHE39A37A with Stainless Steel
Hardware would be HHE39A37A-SS.



Part Number	Main (C) NPS Tube Diameter	Tap (CC) NPS Tube Diameter	Dimensions			
			in (mm)			
			H	L	B	X
HHE39A37A	1-1/4	3/4	2.95 (75)	7.32 (186)	1/2 (13)	3.27 (83)
HHE40A39A	1-1/2	1-1/4	3.78 (96)	8.03 (204)	1/2 (13)	3.70 (94)
HHE41A38A	2	1	3.78 (96)	7.76 (197)	1/2 (13)	4.13 (105)
HHE41A40A	2	1-1/2	3.78 (96)	8.35 (212)	1/2 (13)	4.13 (105)
HHE42A38A	2-1/2	1	4.33 (110)	7.76 (197)	1/2 (13)	4.61 (117)
HHE42A39A	2-1/2	1-1/4	4.33 (110)	8.00 (203)	1/2 (13)	4.61 (117)
HHE42A41A	2-1/2	2	4.84 (123)	8.98 (228)	5/8 (16)	5.00 (127)
HHE43A39A	3	1-1/4	5.43 (138)	8.00 (203)	1/2 (13)	5.24 (133)
HHE43A41A	3	2	5.43 (138)	9.45 (240)	5/8 (16)	5.55 (141)
HHE43A42A	3	2-1/2	5.43 (138)	9.65 (245)	5/8 (16)	5.55 (141)
HHE44A43A	3-1/2	3	5.59 (142)	10.67 (271)	5/8 (16)	6.14 (156)
HHE45A42A	4	2-1/2	6.18 (157)	10.79 (274)	5/8 (16)	6.69 (170)
HHE45A43A	4	3	6.18 (157)	11.50 (292)	5/8 (16)	6.69 (170)
HHE45A44A	4	3-1/2	6.18 (157)	11.69 (297)	5/8 (16)	6.69 (170)
HHE46A45A	4-1/2	4	6.38 (162)	12.17 (309)	5/8 (16)	7.17 (182)

HHE-A

Aluminum Bolted Coupler Straight Tube to Cable 230kV and Below

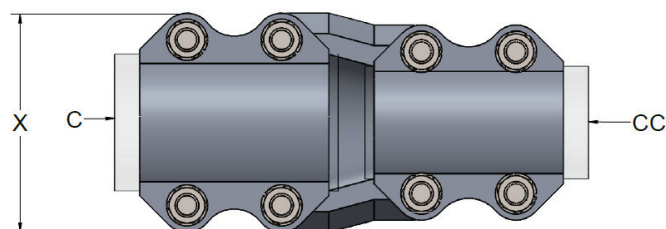
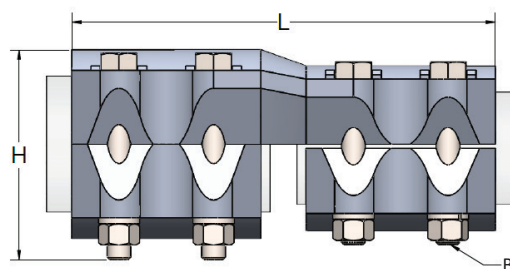
Aluminum alloy straight coupler to connect one bus tube to one cable. Electrical joint compound is recommended for all tube/cable contact surfaces.

CASTINGS: Aluminum Alloy

HARDWARE: Galvanized Steel

See page 172 for special order options such as tin plating, hardware materials and specific angles. Contact PLP for further details, unlisted option and/or special applications.

Example: HHE40A17A with Stainless Steel
Hardware would be HHE40A17A-SS.



Part Number	Main (C) NPS Tube Diameter	Cable (CC) AWG/MCM				Dimensions		
		AAC	AAC Diameter	ACSR	ACSR Diameter	in (mm)		
			in (mm)		in (mm)	H	L	X
HHE40A17A	1-1/2	397 - 400	0.724 - 0.728 (18.3 - 18.5)	203 (16/19) - 336 (30/7)	0.714 - 0.720 (18.1 - 18.3)	3.86 (98)	7.48 (190)	3.66 (93)
HHE42A29A	2-1/2	1192 - 1351	1.258 - 1.340 (32.0 - 34.0)	1033 (54/7) - 1192 (54/19)	1.245 - 1.338 (31.6 - 34.0)	4.37 (111)	7.72 (196)	4.61 (117)
HHE43A28A	3	900 - 1000	1.094 - 1.152 (27.8 - 29.3)	795 (24/7) - 874 (54/7)	1.092 - 1.146 (27.7 - 29.1)	4.88 (124)	7.91 (201)	5.35 (136)
HHE43A285A	3	1033 - 1113	1.172 - 1.216 (29.8 - 30.9)	900 (54/7) - 954 (54/7)	1.162 - 1.196 (29.5 - 30.4)	4.88 (124)	7.91 (201)	5.35 (136)
HHE43A29A	3	1192 - 1351	1.259 - 1.340 (32.0 - 34.0)	1033 (54/7) - 1192 (45/7)	1.245 - 1.302 (31.6 - 33.1)	4.88 (124)	7.91 (201)	5.35 (136)

EHHE-A

Aluminum Bolted Coupler Straight Cable to Cable 230kV and Below

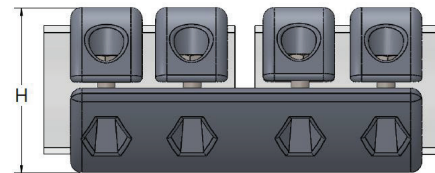
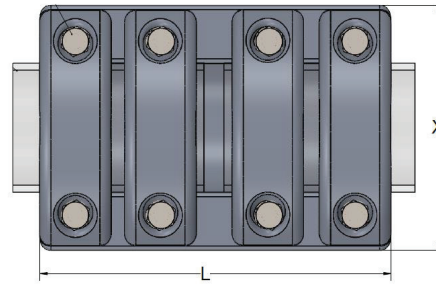
Aluminum alloy straight coupler to connect two cables of the same diameter. Electrical joint compound is recommended for all cable contact surfaces.

CASTINGS: Aluminum Alloy

HARDWARE: Galvanized Steel

See page 172 for special order options such as tin plating, hardware materials and specific angles. Contact PLP for further details, unlisted option and/or special applications.

Example: EHHE28A28A with Stainless Steel
Hardware would be EHHE28A28A-SS.



Part Number	Cable AWG/MCM				Dimensions		
	AAC	AAC Diameter	ACSR	ACSR Diameter	in (mm)		
		in (mm)		in (mm)	H	L	X
EHHE28A28A	900 - 1000	1.094 - 1.152 (27.8 - 29.3)	795 (54/7) - 954 (45/7)	1.092 - 1.165 (27.7 - 29.6)	2.56 (65)	8.27 (210)	4.65 (118)
EHHE29A29A	1192 - 1300	1.258 - 1.315 (32.0 - 33.4)	1033 (54/7) - 1192 (54/19)	1.245 - 1.338 (31.6 - 33.9)	2.56 (65)	8.27 (210)	4.65 (118)

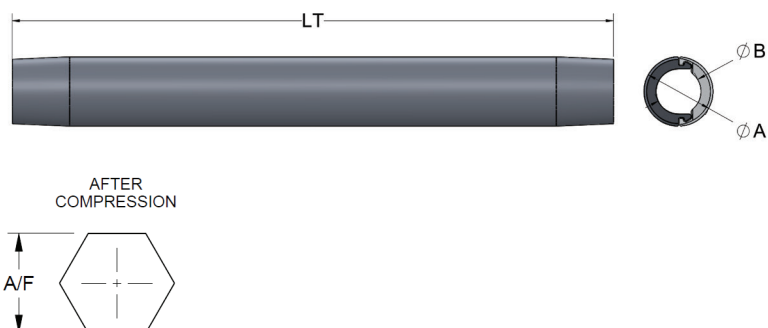
ERC

Aluminum Compression Coupler Straight Cable to Cable 230kV and Below

Aluminum alloy compression coupler for connecting straight cable to cable. Electrical joint compound is recommended for all cable contact surfaces.

CASTINGS: Aluminum Alloy

See page 172 for special order options such as tin plating, hardware materials and specific angles. Contact PLP for further details, unlisted option and/or special applications.



Part Number	Cable Size in (mm)	Dimensions in (mm)				Compression Die
		A	B	LT	A/F	
ERC-22	0.787 - 0.905 (20.0 - 23.0)	1.46 (37)	0.91 (23)	14.00 (356)	1.244 (31.6)	DC-32
ERC-28	1.023 - 1.165 (26.0 - 29.6)	1.81 (46)	1.18 (30)	15.00 (381)	1.575 (40.0)	DC-40
ERC-32	1.181 - 1.299 (30.0 - 33.0)	2.05 (52)	1.34 (34)	15.75 (400)	1.732 (44.0)	DC-44
ERC-22HT	0.787 - 0.905 (20.0 - 23.0)	1.46 (37)	0.91 (23)	22.00 (559)	1.244 (31.6)	DC-32
ERC-28HT	1.023 - 1.165 (26.0 - 29.6)	1.81 (46)	1.18 (30)	24.00 (610)	1.575 (40.0)	DC-40
ERC-32HT	1.181 - 1.299 (30.0 - 33.0)	2.05 (52)	1.34 (34)	24.00 (610)	1.732 (44.0)	DC-44

CE

Bronze Bolted Coupler

Straight Cable to Cable, Eyebolt

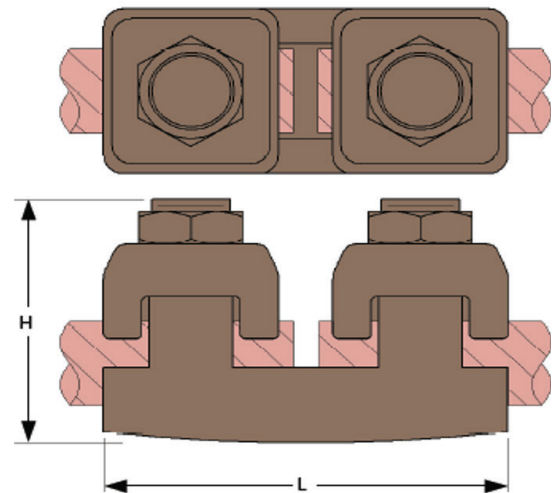
230kV and Below

Copper alloy coupler to connect two copper cables of the same diameter. Electrical joint compound is recommended for all cable contact surfaces.

CASTINGS: Copper Alloy

HARDWARE: Silicone Bronze

See page 172 for special order options such as tin plating, hardware materials and specific angles. Contact PLP for further details, unlisted option and/or special applications.



Part Number	Cable AWG/MCM	Diameter	Dimensions	
			in (mm)	
		in (mm)	H	L
CE8T	14S-8T(*)	.064 - .146 (1.6 - 3.7)	0.83 (21)	1.69 (43)
CE4T	6S-4T(*)	.162 - .232 (4.1 - 5.9)	0.83 (21)	1.69 (43)
CE1T	4T-1T(*)	.232 - .332 (5.9 - 8.4)	1.06 (27)	1.93 (49)
CE20	1/0T-2/0T(*)	.372 - .419 (9.4 - 10.6)	1.26 (32)	2.13 (54)
CE40	3/0T-4/0T(*)	.470 - .528 (11.9 - 13.4)	1.57 (40)	2.44 (62)
CE350	250 - 350	.575 - .681 (14.6 - 17.3)	1.77 (45)	2.72 (69)
CE500	400 - 500	.728 - .814 (18.5 - 20.7)	2.17 (55)	3.11 (79)
CE800	600 - 800	.893 - 1.031 (22.7 - 26.2)	2.56 (65)	3.50 (89)
CE1000	850 - 1000	1.062 - 1.152 (27.0 - 29.3)	2.68 (68)	3.90 (99)

*S denotes SOLID wire, and T denotes STRANDED wire.

HE

Bronze Bolted Coupler Straight Tube to Tube 230kV and Below

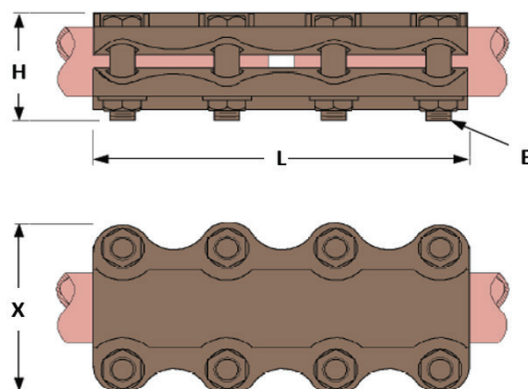
Copper alloy coupler to connect two bus tubes of the same diameter. Electrical joint compound is recommended for all tube contact surfaces.

Different angles available upon special request.

CASTINGS: Copper Alloy

HARDWARE: Silicone Bronze

See page 172 for special order options such as tin plating, hardware materials and specific angles. Contact PLP for further details, unlisted option and/or special applications.



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COUPLERS

Part Number	NPS Tube Diameter	Dimensions			
		in (mm)			
		H	L	B	X
HE3434	1/4	1.54 (39)	3.03 (77)	3/8 (10)	2.13 (54)
HE3636	1/2	1.69 (43)	4.02 (102)	3/8 (10)	2.36 (60)
HE3737	3/4	1.77 (45)	4.25 (108)	3/8 (10)	2.48 (63)
HE3838	1	1.89 (48)	4.25 (108)	3/8 (10)	2.87 (73)
HE3939	1-1/4	2.60 (66)	5.87 (149)	1/2 (13)	3.58 (91)
HE4040	1-1/2	2.64 (67)	5.71 (145)	1/2 (13)	3.90 (99)
HE4141	2	3.03 (77)	5.71 (145)	1/2 (13)	4.69 (119)
HE4242	2-1/2	3.70 (94)	5.71 (145)	1/2 (13)	5.28 (134)
HE4343	3	4.33 (110)	7.20 (183)	5/8 (16)	6.14 (156)
HE4444	3-1/2	4.96 (126)	7.20 (183)	5/8 (16)	6.89 (175)
HE4545	4	5.63 (143)	8.50 (216)	5/8 (16)	7.40 (188)
HE4646	4-1/2	5.98 (152)	8.78 (223)	5/8 (16)	8.00 (203)
HE4747	5	6.61 (168)	8.78 (223)	5/8 (16)	8.50 (216)

HE

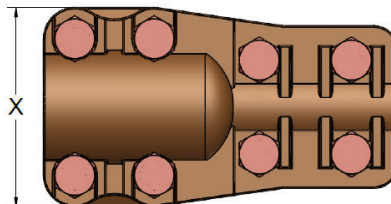
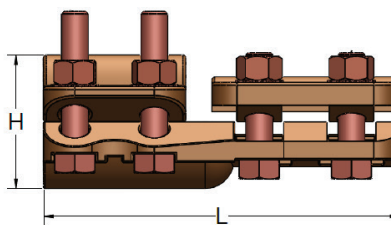
Bronze Bolted Coupler Straight Tube to Cable 230kV and Below

Copper alloy straight coupler to connect one bus tube to one cable. Electrical joint compound is recommended for all tube/cable contact surfaces.

CASTINGS: Copper Alloy

HARDWARE: Silicone Bronze

See page 172 for special order options such as tin plating, hardware materials and specific angles. Contact PLP for further details, unlisted option and/or special applications.



Part Number	Main NPS Tube Diameter in	Tap Cable AWG/MCM	Cable Diameter in (mm)	Dimensions in (mm)		
				H	L	X
HE3813	1	4/0T*	0.528 (13.4)	1.89 (48)	4.33 (110)	2.87 (73)
HE3814	1	250	0.575 (14.6)	1.89 (48)	4.33 (110)	2.87 (73)
HE3819	1	500	0.814 (20.7)	1.89 (48)	4.33 (110)	2.87 (73)
HE4324	3	750	0.998 (25.3)	4.21 (107)	4.80 (122)	5.51 (140)

*S denotes SOLID wire, and T denotes STRANDED wire.

HE

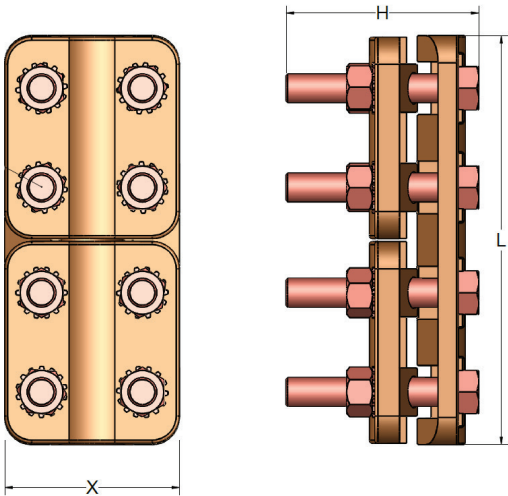
Bronze Bolted Coupler Straight Cable to Cable 230kV and Below

Copper alloy straight coupler to connect two cables. Electrical joint compound is recommended for all cable contact surfaces.

CASTINGS: Copper Alloy

HARDWARE: Silicone Bronze

See page 172 for special order options such as tin plating, hardware materials and specific angles. Contact PLP for further details, unlisted option and/or special applications.



Part Number	Main Cable AWG/MCM	Main Cable Diameter	Tap Cable AWG/MCM	Tap Cable Diameter	Dimensions		
					in (mm)		
				in (mm)	H	L	X
HE1916	500	0.814 (20.7)	350	0.681 (17.3)	1.77 (45)	4.76 (121)	2.40 (61)
HE1919	500	0.814 (20.7)	500	0.814 (20.7)	1.77 (45)	5.31 (135)	2.40 (61)
HE2424	750	0.998 (25.3)	750	0.998 (25.3)	2.28 (58)	5.67 (144)	2.40 (61)

HL

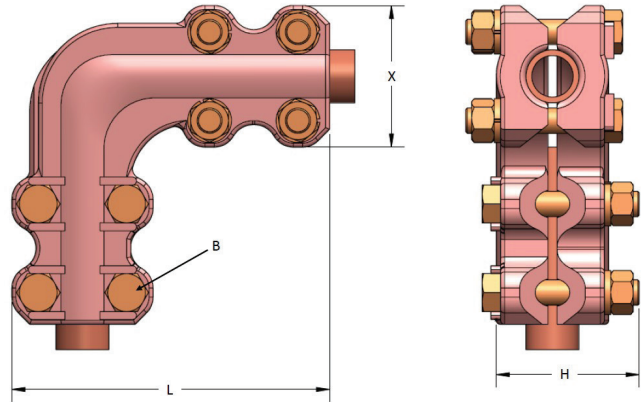
Bronze Bolted Coupler 90-Degree Tube to Tube 230kV and Below

Copper alloy coupler to connect two bus tubes of the same diameter. Electrical joint compound is recommended for all tube contact surfaces.

CASTINGS: Copper Alloy

HARDWARE: Silicone Bronze

See page 172 for special order options such as tin plating, hardware materials and specific angles. Contact PLP for further details, unlisted option and/or special applications.



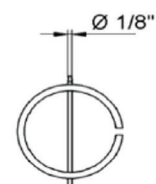
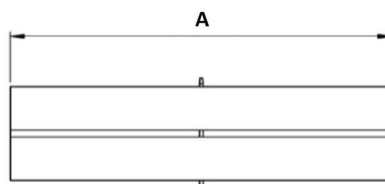
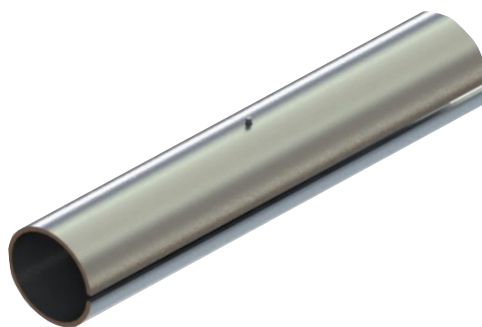
Part Number	NPS Tube Diameter	Dimensions			
		in (mm)			
		H	L	B	X
HL3737	3/4	1.77 (45)	4.96 (126)	3/8 (10)	2.48 (63)
HL3838	1	1.89 (48)	4.96 (126)	3/8 (10)	2.87 (73)
HL3939	1-1/4	2.36 (60)	6.61 (168)	1/2 (13)	3.58 (91)
HL4040	1-1/2	2.52 (64)	6.22 (158)	1/2 (13)	3.86 (98)
HL4141	2	3.03 (77)	7.17 (182)	1/2 (13)	4.69 (119)
HL4242	2-1/2	3.70 (94)	8.23 (209)	1/2 (13)	5.31 (135)
HL4343	3	4.33 (110)	9.41 (239)	5/8 (16)	6.14 (156)
HL4444	3-1/2	4.96 (126)	9.88 (251)	5/8 (16)	6.89 (175)
HL4545	4	5.43 (138)	11.26 (286)	5/8 (16)	7.40 (188)
HL4747	5	6.61 (168)	12.36 (314)	5/8 (16)	8.50 (216)

MLS

Aluminum Weldment Coupler Straight Tube to Tube 230kV and Below

Aluminum alloy coupler to connect two tubes of the same diameter in straight orientation. Centering pin is included.

MATERIAL: Aluminum Alloy



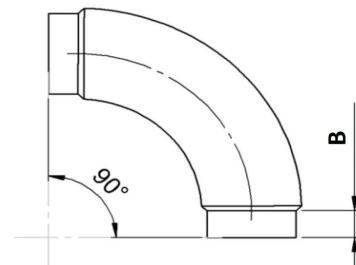
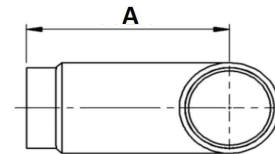
Part Number		NPS Tube Diameter	Dimensions
SCH40	SCH80		in (mm)
		in	A
MLS-14A	MLS-54A	3/4	4.53 (115)
MLS-15A	MLS-55A	1	5.91 (150)
MLS-16A	MLS-56A	1-1/4	7.48 (190)
MLS-17A	MLS-57A	1-1/2	9.06 (230)
MLS-18A	MLS-58A	2	12.01 (305)
MLS-19A	MLS-59A	2-1/2	17.99 (457)
MLS-20A	MLS-90A	3	17.99 (457)
MLS-21A	MLS-91A	3-1/2	24.02 (610)
MLS-22A	MLS-92A	4	24.02 (610)
MLS-23A	MLS-93A	4-1/2	24.02 (610)
MLS-24A	MLS-94A	5	24.02 (610)
MLS-86A	MLS-96A	6	24.02 (610)

MYNAL

Aluminum Weldment Coupler 90-Degree Tube to Tube 230kV and Below

Aluminum alloy coupler for connecting two tubes of the same diameter at 90 degrees, for SCH40 or SCH80.

CASTING: Aluminum Alloy



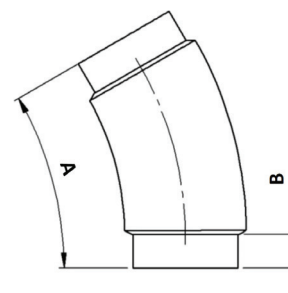
Part Number		NPS Tube Diameter	Dimensions	
SCH40	SCH80		in (mm)	in (mm)
		in	A	B
MYNAL-14A	MYNAL-54A	3/4	5.71 (145)	0.79 (20)
MYNAL-15A	MYNAL-55A	1	5.51 (140)	0.79 (20)
MYNAL-16A	MYNAL-56A	1-1/4	5.51 (140)	0.79 (20)
MYNAL-17A	MYNAL-57A	1-1/2	5.51 (140)	0.87 (22)
MYNAL-18A	MYNAL-58A	2	6.30 (160)	0.94 (24)
MYNAL-19A	MYNAL-59A	2-1/2	7.09 (180)	1.10 (28)
MYNAL-20A	MYNAL-90A	3	7.87 (200)	1.38 (35)
MYNAL-21A	MYNAL-91A	3-1/2	6.89 (175)	1.38 (35)
MYNAL-22A	MYNAL-92A	4	5.71 (145)	1.38 (35)
MYNAL-23A	MYNAL-93A	4-1/2	7.56 (192)	1.57 (40)
MYNAL-24A	MYNAL-94A	5	11.34 (288)	1.65 (42)
MYNAL-86A	MYNAL-96A	6	6.89 (175)	1.65 (42)

MYNAL

Aluminum Weldment Coupler Angular Tube to Tube 230kV and Below

Aluminum alloy coupler for connecting two tubes of the same diameter at various angles, for SCH40 or SCH80.

CASTING: Aluminum Alloy



Part Number		NPS Tube Diameter	Dimensions	
SCH40	SCH80		Degrees	in (mm)
		in	A	B
MYNAL-14A-30	MYNAL-54A-30	3/4	30	0.79 (20)
MYNAL-14A-45	MYNAL-54A-45	3/4	45	0.79 (20)
MYNAL-14A-60	MYNAL-54A-60	3/4	60	0.79 (20)
MYNAL-15A-30	MYNAL-55A-30	1	30	0.79 (20)
MYNAL-15A-45	MYNAL-55A-45	1	45	0.79 (20)
MYNAL-15A-60	MYNAL-55A-60	1	60	0.79 (20)
MYNAL-16A-30	MYNAL-56A-30	1-1/4	30	0.87 (22)
MYNAL-16A-45	MYNAL-56A-45	1-1/4	45	0.87 (22)
MYNAL-16A-60	MYNAL-56A-60	1-1/4	60	0.87 (22)
MYNAL-17A-30	MYNAL-57A-30	1-1/2	30	0.87 (22)
MYNAL-17A-45	MYNAL-57A-45	1-1/2	45	0.87 (22)
MYNAL-17A-60	MYNAL-57A-60	1-1/2	60	0.87 (22)
MYNAL-18A-30	MYNAL-58A-30	2	30	0.98 (25)
MYNAL-18A-45	MYNAL-58A-45	2	45	0.98 (25)
MYNAL-18A-60	MYNAL-58A-60	2	60	0.98 (25)
MYNAL-19A-30	MYNAL-59A-30	2-1/2	30	1.18 (30)
MYNAL-19A-45	MYNAL-59A-45	2-1/2	45	1.18 (30)
MYNAL-19A-60	MYNAL-59A-60	2-1/2	60	1.18 (30)

Part Number		NPS Tube Diameter	Dimensions	
SCH40	SCH80		Degrees	in (mm)
		in	A	B
MYNAL-20A-30	MYNAL-90A-30	3	30	1.18 (30)
MYNAL-20A-45	MYNAL-90A-45	3	45	1.18 (30)
MYNAL-20A-60	MYNAL-90A-60	3	60	1.18 (30)
MYNAL-21A-30	MYNAL-91A-30	3-1/2	30	1.38 (35)
MYNAL-21A-45	MYNAL-91A-45	3-1/2	45	1.38 (35)
MYNAL-21A-60	MYNAL-91A-60	3-1/2	60	1.38 (35)
MYNAL-22A-30	MYNAL-92A-30	4	30	1.38 (35)
MYNAL-22A-45	MYNAL-92A-45	4	45	1.38 (35)
MYNAL-22A-60	MYNAL-92A-60	4	60	1.38 (35)
MYNAL-23A-30	MYNAL-93A-30	4-1/2	30	1.57 (40)
MYNAL-23A-45	MYNAL-93A-45	4-1/2	45	1.57 (40)
MYNAL-23A-60	MYNAL-93A-60	4-1/2	60	1.57 (40)
MYNAL-24A-30	MYNAL-94A-30	5	30	1.57 (40)
MYNAL-24A-45	MYNAL-94A-45	5	45	1.57 (40)
MYNAL-24A-60	MYNAL-94A-60	5	60	1.57 (40)
MYNAL-86A-30	MYNAL-96A-30	6	30	1.65 (42)
MYNAL-86A-45	MYNAL-96A-45	6	45	1.65 (42)
MYNAL-86A-60	MYNAL-96A-60	6	60	1.65 (42)

