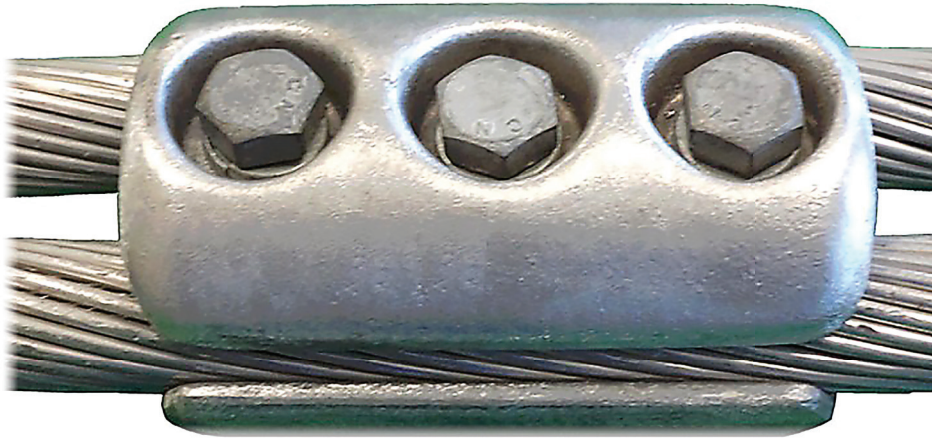


SECTION 4 PARALLEL CONNECTORS

SUBSTATION CONNECTORS - 230KV AND BELOW



PARALLEL CONNECTORS

PLP **Substation Connectors Parallel Connectors** for 230kV and below are designed with a wide range of conduct acceptance for both main and tap and can be used for ACSR and AAC substation flexible conductor. Typically used for non-current carrying connections to voltage transformers and surge arrestors and are suitable for both equal and unequal conductor combinations. 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

EGP-A

Aluminum Bolted Parallel Conductor

Two Cable

230kV and Below

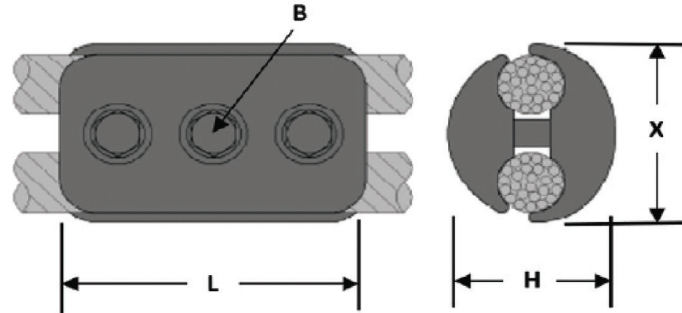
Aluminum alloy parallel clamp to connect cable in the main and cable in the tap. Electrical joint compound is recommended for all cable contact surfaces.

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: EGP21A with Stainless Steel Hardware would be EGP21A-SS.



Part Number	Cable AWG/MCM				Tap Cable AWG/MCM				Dimensions			
	AAC	AAC Diameter	ACSR	ACSR Diameter	AAC	AAC Diameter	ACSR	ACSR Diameter	in (mm)			
		in (mm)		in (mm)		in (mm)		in (mm)	H	L	B	X
EGP21A	500 - 600	0814 - 0.893 (20.7 - 22.7)	477 (18/1) - 477 (30/7)	0.814 - 0.883 (20.7 - 22.4)	500 - 600	0.814 - 0.893 (20.7 - 22.7)	477 (18/1) - 477 (30/7)	0.814 - 0.883 (20.7 - 22.4)	2.91 (74)	6.22 (158)	5/8 (16)	4.06 (103)
EGP29A	900 - 1300	1.094 - 1.315 (27.8 - 33.4)	795 (54/7) - 1192 (54/19)	1.093 - 1.338 (27.8 - 34.0)	900 - 1300	1.094 - 1.315 (27.8 - 33.4)	795 (54/7) - 1192 (54/19)	1.093 - 1.338 (27.8 - 34.0)	3.35 (85)	6.22 (158)	5/8 (16)	4.06 (103)
EGP30A	1431 - 1590	1.382 - 1.454 (35.1 - 36.9)	1272 (54/19) - 1431 (54/19)	1.382 - 1.465 (35.1 - 37.2)	1431 - 1590	1.382 - 1.454 (35.1 - 36.9)	1272 (54/19) - 1431 (54/19)	1.382 - 1.465 (35.1 - 37.2)	3.90 (99)	7.17 (182)	5/8 (16)	4.57 (116)
EGP32A	1750 - 2000	1.526 - 1.632 (38.8 - 41.5)	1590 (45/7) - 1780 (84/19)	1.504 - 1.602 (38.2 - 40.7)	1750 - 2000	1.526 - 1.632 (38.8 - 41.5)	1590 (45/7) - 1780 (84/19)	1.504 - 1.602 (38.2 - 40.7)	4.21 (107)	7.17 (182)	5/8 (16)	4.57 (116)
EGP29A21A	900 - 1300	1.094 - 1.315 (27.8 - 33.4)	795 (54/7) - 1192 (54/19)	1.093 - 1.338 (27.8 - 34.0)	500 - 600	0.814 - 0.893 (20.7 - 22.7)	477 (18/1) - 477 (30/7)	0.814 - 0.883 (20.7 - 22.4)	3.35 (85)	6.26 (159)	5/8 (16)	4.06 (103)
EGP29A24A	900 - 1300	1.094 - 1.315 (27.8 - 33.4)	795 (54/7) - 1192 (54/19)	1.093 - 1.338 (27.8 - 34.0)	636 - 750	0.918 - 0.998 (23.3 - 25.3)	556 (18/1) - 666 (24/7)	0.879 - 1.000 (22.3 - 25.4)	3.35 (85)	6.26 (159)	5/8 (16)	4.06 (103)
EGP30A29A	1431 - 1590	1.382 - 1.454 (35.1 - 36.9)	1272 (54/19) - 1431 (54/19)	1.382 - 1.465 (35.1 - 37.2)	900 - 1300	1.094 - 1.315 (27.8 - 33.4)	795 (54/7) - 1192 (54/19)	1.093 - 1.338 (27.8 - 34.0)	4.21 (107)	7.17 (182)	5/8 (16)	4.57 (116)
EGP32A29A	1750 - 2000	1.526 - 1.632 (38.8 - 41.5)	1590 (45/7) - 1780 (84/19)	1.504 - 1.602 (38.2 - 40.7)	900 - 1300	1.094 - 1.315 (27.8 - 33.4)	795 (54/7) - 1192 (54/19)	1.093 - 1.338 (27.8 - 34.0)	4.21 (107)	7.17 (182)	5/8 (16)	4.57 (116)



MP-R

Aluminum Bolted Parallel Connector

Two Cable, U-Bolt

230kV and Below

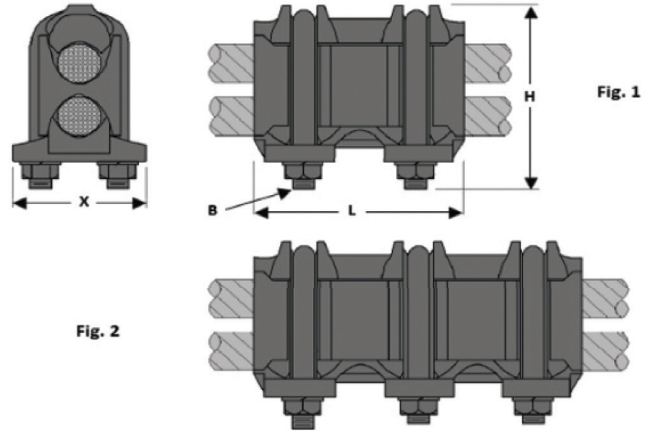
Aluminum alloy parallel clamp to connect cable in the main and cable in the tap. Electrical joint compound is recommended for all cable contact surfaces.

CASTINGS: Aluminum Alloy

HARDWARE: Zinc Plated 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: MP19R with Stainless Steel Hardware would be MP19R-SS.



Part Number	Figure	Cable AWG/MCM				Tap Cable AWG/MCM				Dimensions			
		AAC	AAC Diameter	ACSR	ACSR Diameter	AAC	AAC Diameter	ACSR	ACSR Diameter	in (mm)			
			in (mm)		in (mm)		in (mm)		in (mm)	H	L	B	X
MP19R	1	3/0T-400*	0.470 - 0.728 (11/9 - 18.5)	2/0 (6/1) - 397 (26/7)	0.447 - 0.783 (11.4 - 19.9)	3/0T - 400*	0.470 - 0.728 (11.9 - 18.5)	2/0 - (6/1) - 397 (26/7)	0.447 - 0.783 (11.4 - 19.9)	5.04 (128)	4.02 (102)	1/2 (13)	2.80 (71)
MP30R21R	1	397 - 954	0.724 - 1.126 (18.4 - 28.6)	336 (30/7) - 795 (30/19)	0.741 - 1.140 (18.8 - 29.0)	3/0T - 500*	0.470 - 0.814 (11.9 - 20.7)	110 (12/7) - 477 (18/1)	0.741 - 1.140 (18.8 - 29.0)	5.67 (144)	4.02 (102)	1/2 (13)	2.87 (73)
MP30R	1	397 - 954	0.724 - 1.126 (18.4 - 28.6)	336 (30/7) - 795 (30/19)	0.741 - 1.140 (18.8 - 29.0)	397 - 954	0.724 - 1.126 (18.4 - 28.6)	336 (30/7) - 795 (30/19)	0.741 - 1.140 (18.8 - 29.0)	6.54 (166)	4.45 (113)	5/8 (16)	3.27 (83)
MP32R-M1	2	750 - 1033	0.998 - 1.171 (25.3 - 34.0)	605 (54/7) - 900 (54/7)	0.953 - 1.162 (24.2 - 29.5)	750 - 1033	0.998 - 1.171 (25.3 - 29.7)	605 (54/7) - 900 (54/7)	0.953 - 1.162 (24.2 - 29.5)	6.54 (166)	7.01 (178)	5/8 (16)	3.70 (94)
MP35R	2	1000 - 1351	1.152 - 1.340 (29.3 - 34.0)	900 (54/7) - 1192 (45/7)	1.162 - 1.302 (29.5 - 33.1)	1000 - 1351	1.152 - 1.340 (29.3 - 34.0)	900 (54/7) - 1192 (45/7)	1.162 - 1.302 (29.5 - 33.1)	6.77 (172)	7.17 (182)	5/8 (16)	3.70 (94)
MP35R30R	2	1000 - 1351	1.152 - 1.340 (29.3 - 34.0)	900 (54/7) - 1192 (45/7)	1.162 - 1.302 (29.5 - 33.1)	397 - 954	0.724 - 1.126 (18.4 - 28.6)	336 (30/7) - 795 (30/19)	0.741 - 1.140 (18.8 - 29.0)	6.77 (172)	7.17 (182)	5/8 (16)	3.70 (94)

*S denotes SOLID wire, and T denotes STRANDED wire