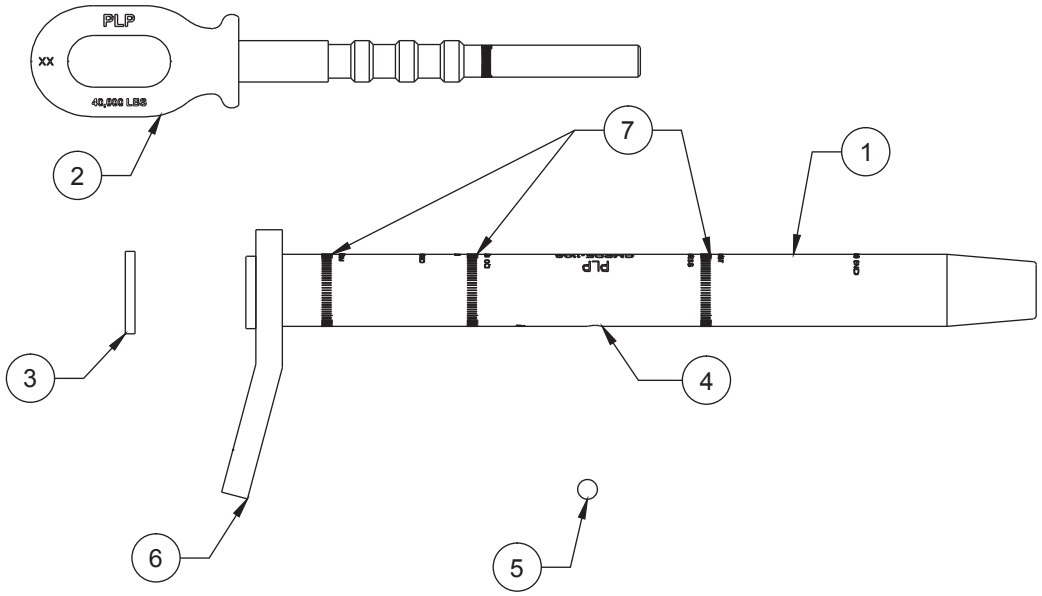
Two Stage Compression Hardware Series for ACSR Conductors

Compression Dead-end – CMPDE



NOMENCLATURE

Dead Ends

1. **Dead End Body:** Aluminum component of dead end assembly that is compressed around the OD of the conductor.
2. **Steel Dead End Eye:** Steel component of the dead end assembly that is compressed around the OD of the steel core.
3. **Felt Washer:** Utilized to seal off the dead end body and steel dead end eye interface to minimize the loss of filler compound during compression.
4. **Filler Hole:** Hole utilized to insert inhibitor compound into the compression assembly.
5. **Filler Plug:** Plug utilized to close off the filler hole after inhibitor compound has been inserted into the compression assembly.
6. **Terminal Pad:** Pad utilized for attachment to the jumper.
7. **Knurl Marks:** Knurls placed on the OD of the aluminum and steel components to mark start and stop locations for compression.

GENERAL RECOMMENDATIONS

The compression dead ends are specially designed for applications on ACSR conductor only.

Designs utilize a dual compression product requiring compression of a steel component around the steel core and an aluminum component around the aluminum wire OD.

Compression of products can be completed with industry standard presses and dies.

GENERAL SPECIFICATIONS

Holding Strength: 95% or more of the conductor rated breaking strength (RBS) in accordance with ANSI C119.4 requirements for tensile strength.

Design allows for continuous conductor operating temperatures up to 125°C (150°C two hour emergency).

Dead End pad is constructed with a 15° angle which allows for the terminal connection of jumper and dead to be bolted together in a 0° or 30° configuration.

Includes: Aluminum dead end body, steel dead end eye, felt washer, and filler plug.

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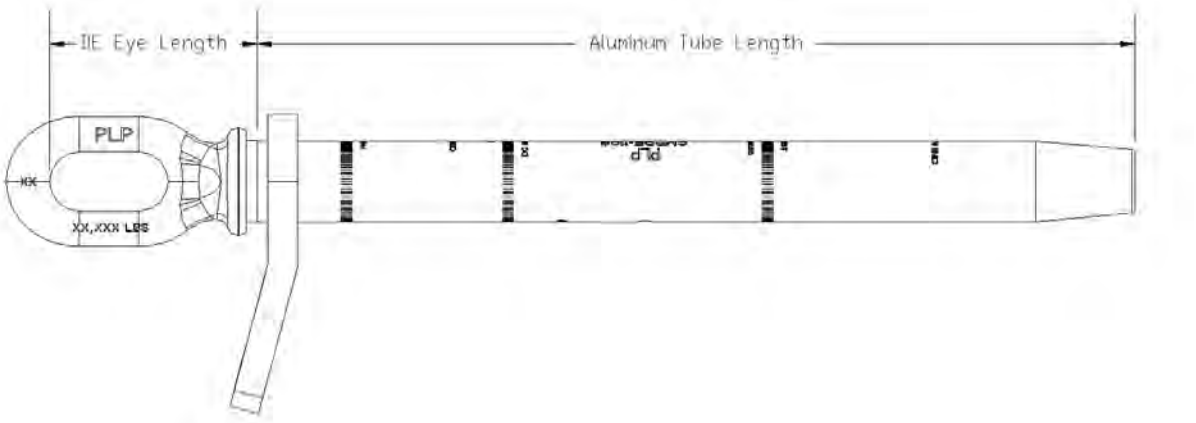

Dead-end Assembly Catalog Number	Conductor Information				Al. Body Part No.	Al. Die Size	Steel Eye Part No.	Steel Die Size	Dimensions		Wgt lbs	Pad Cfg.	Pad Class	Dead-end Eye Class
	Code Word	Area kcmil	Al/St	Dia. in					Al. Tube Length in	DE Eye Length in				
CMPDE-1063	Tern	795	45/7	1.063	74125	30AH	65595	10SH	21.4	5.2	8.1	4	G	1 & 2
CMPDE-1081	Redwing	715.5	30/19	1.081	74126	30AH	65762	16SH	21.4	5.6	9.7	4	G	3
CMPDE-1092	Cuckoo/Condor	795	24/7,54/7	1.092	74273	30AH	65763	12SH	20.2	5.6	8.9	4	G	3
CMPDE-1108	Drake	795	26/7	1.108	64892	30AH	65542	14SH	20.2	5.6	9.0	4	G	3
CMPDE-1131	Ruddy	900	45/7	1.131	74127	30AH	65765	10SH	21.8	5.2	8.2	4	H	1 & 2
CMPDE-1140	Skimmer/Mallard	795	30/7,30/19	1.140	74128	30AH	65766	16SH	21.8	5.6	9.7	4	H	3
CMPDE-1162	Canary	900	54/7	1.162	74129	30AH	65768	14SH	20.6	5.6	9.2	4	H	3
CMPDE-1165	Corncrake/Rail	954	20/7,45/7	1.165	74130	30AH	65769	10SH	20.6	5.6	8.9	4	H	3
CMPDE-1196	Redbird/Cardinal	954	24/7,54/7	1.196	74131	30AH	65770	14SH	20.8	5.6	9.3	4	H	3
CMPDE-1203	Snowbird	1033.5	42/7	1.203	74132	30AH	65771	10SH	20.8	5.6	9.0	4	H	3
CMPDE-1212	Ortolan	1033.5	45/7	1.212	74133	34AH	65703	10SH	20.9	5.6	10.4	4	J	3
CMPDE-1245	Curlew	1033.5	54/7	1.245	74134	34AH	65772	14SH	22.5	5.6	11.1	4	J	3
CMPDE-1248	Canvasback	954	30/19	1.248	74135	34AH	65773	18SH	22.5	5.7	12.6	4	J	4
CMPDE-1259	Bluejay	1113	45/7	1.259	74136	34AH	65695	12SH	22.5	5.6	11.0	4	J	3
CMPDE-1293	Finch	1113	54/19	1.293	74137	34AH	65774	14SH	22.8	5.6	11.3	4	J	3
CMPDE-1302	Bunting	1192.5	45/7	1.302	74138	34AH	65693	12SH	22.8	5.6	11.1	4	J	3
CMPDE-1338	Grackle	1192.5	54/19	1.338	74139	36AH	65775	14SH	23.1	5.7	13.1	4	K	4
CMPDE-1345	Bittern	1272	45/7	1.345	74140	36AH	65687	12SH	23.1	5.6	12.0	4	K	3
CMPDE-1504	Lapwing	1590	45/7	1.504	74147	40AH	65683	12SH	24.3	5.7	14.5	4	M	4
CMPDE-1505	Parrot	1510	54/19	1.505	74148	40AH	65782	16SH	24.3	5.7	15.0	4	M	4
CMPDE-1545	Falcon	1590	54/19	1.545	74149	40AH	65675	18SH	25.5	5.8	16.4	4	N	5
CMPDE-1602	Chukar	1780	84/19	1.602	74150	42AH	65539	14SH	25.5	5.8	17.6	4	P	5

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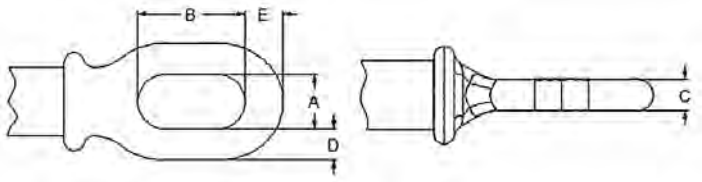
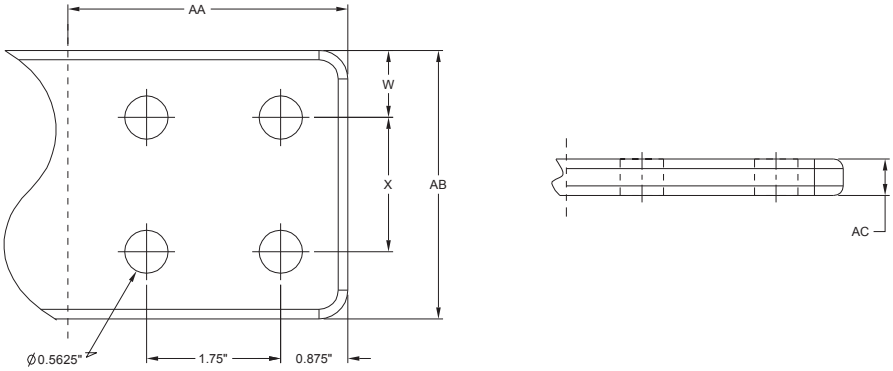
Steel Eye Dimensions and PAD Dimensions

Steel Dead-end Eye Classifications and Dimensions



Forging	A	B	C	D	E
Class 2	1.000	2.500	0.750	0.688	0.875
Class 3	1.375	2.750	0.813	0.813	1.000
Class 4	1.375	2.750	1.000	1.000	1.125
Class 5	1.375	2.75	1.125	1.125	1.313

PAD Classifications and Dimensions



Pad	W	X	AA	AB Jumper	AC Jumper	AB Dead-End	AC Dead-End
Class F	0.69	NA	3.5	3.13	0.41	3.13	0.688
Class G	0.875	1.75	3.5	3.5	0.475	3.5	0.688
Class H	0.813	1.75	3.5	3.375	0.475	3.375	0.688
Class J	1	1.75	3.5	3.75	0.6	3.75	0.688
Class K	1.188	1.75	3.5	4.125	0.6	4.125	0.688
Class L	1.063	1.75	3.5	3.875	0.6	3.875	0.688
Class M	1.063	1.75	3.5	3.875	0.71	3.875	0.688
Class N	1.063	1.75	3.5	3.875	0.71	3.875	0.792
Class P	1.094	1.75	3.5	3.938	0.81	3.938	0.792
Class Q	1.125	1.75	3.5	4	0.81	4	0.792

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