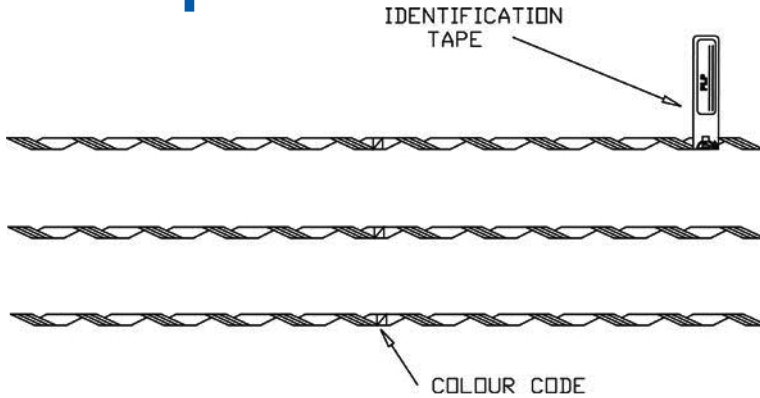


# Line Splice



## General Recommendations

Conductor Splices are designed as a single component outer-layer assembly for Sub-EHV only.

**Joining:** On all-aluminium, aluminium alloy, and copper conductors of homogeneous stranding, this Conductor Splice will hold a minimum of 90% of the rated breaking strength of, and provide better conductance than, an equal length of unspliced conductor.

On ACSR conductor, this Conductor Splice will hold a minimum tension amounting to the full strength of the aluminium strands plus 10% of the steel core strength. Conductance will be better than in an equivalent length of unspliced conductor.

**Restorative-Repair:** Conductor Splices will restore original conductivity to all-aluminium, aluminium alloy, copper and ACSR type conductors. Full rated breaking strength will be restored to homogeneous stranded conductors. On ACSR, strength will be restored to all of the aluminium strands, but not to the core. When core damage on ACSR is suspected, consult the catalogue pages for Full Tension Line Splice.

Other PREFORMED™ products with restorative-repair capabilities are Armor Rods, Line Guards and ARMOR-GRIP®

**Suspension:** For Line Repair.

**Rated Holding Strength:** In arriving at "Rated Holding Strength," actual results of tests on unweathered conductor are studied, and consideration is given to dimensional tolerances for the sizes encompassed.

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## Line Splice

**Application-Inspection:** To assure a reliable electrical connection, all conductors, new or weathered, must be thoroughly scratch brushed until bright and clean immediately prior to installation.

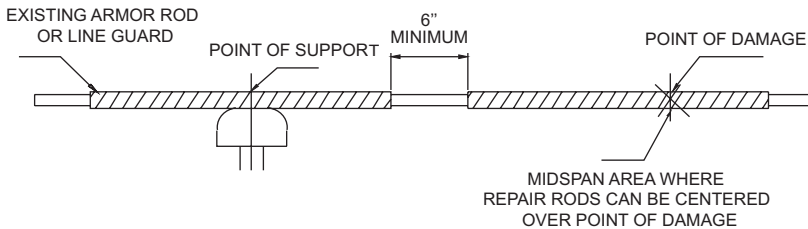
The application of a quality inhibitor, compatible with the conductor material, is strongly recommended to retard oxidation.

**Tapping:** Tapping over a conductor splice is permissible. When ever a tapping clamp will be installed over a splice, it is imperative that the conductor be scratch brushed and an inhibitor be used. The outer surface of the splice should be thoroughly scratch brushed to remove any oxides and glue which may be present. Inhibitor should then be applied to the area beneath the tap itself.

Conductor Splices should not be re-used after original installation.

**Wire Brushing:** All conductors, new or weathered, **MUST** be thoroughly wire brushed before the fitting is applied.

**Inhibitors:** All conductors, new or weathered, **MUST** be coated with a quality inhibitor along the area where the fitting is to be applied.



When centred over the point of damage, the ends of the Conductor Splice should not be positioned closer than 152mm to existing Armor Rods or Line Guards.

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The Restorative-Repair function of the splice should be limited to damage located within the Mid-Span Area or the point of support.



# Aluminium Alloy Line Splices

Right Hand Lay Standard.

CATALOGUE NO. ALS	CONDUCTOR DIAMETER (mm)	COLOUR CODE	RODS PER SUBSET	RODS PER SET	SETS PER PACK	APPROX PACK MASS (kg)	LENGTH OF FITTING (mm)	ROD DIA. (mm)
135 - 140	3,43 - 3,57	White	3-4	7	50	2	410	1,83
141 - 147	3,58 - 3,75	Brown	3-4	7	50	2	410	1,83
148 - 154	3,76 - 3,93	Red	4-4	8	50	2	430	1,83
155 - 161	3,94 - 4,09	Orange	3-4	7	50	3	460	2,03
162 - 168	4,10 - 4,28	Green	4-4	8	50	3	460	2,03
169 - 176	4,29 - 4,48	Yellow	4-4	8	50	4	480	2,03
177 - 84	4,49 - 4,67	Grey	4-4	8	50	3	480	2,03
185 - 193	4,68 - 4,90	Red	4-4	8	50	3	510	2,03
194 - 202	4,91 - 5,13	Blue	3-3-3	9	50	3	510	2,03
203 - 212	5,14 - 5,38	Black	3-3-3	9	50	4	530	2,03
213 - 219	5,39 - 5,56	Green	3-3-3	9	50	4	560	2,03
220 - 228	5,57 - 5,79	White	5-5	10	50	4	580	2,03
229 - 239	5,80 - 6,07	Brown	5-5	10	50	4	580	2,03
240 - 246	6,08 - 6,25	Red	3-3-3	9	50	4	640	2,34
247 - 257	6,26 - 6,53	Orange	3-3-3	9	50	5	660	2,34
258 - 270	6,54 - 6,86	Green	5-5	10	50	5	660	2,34
271 - 280	6,87- 7,11	Yellow	5-5	10	50	5	690	2,34
281 - 289	7,12 - 7,34	White	5-5	10	40	4	710	2,34
290 - 298	7,35 - 7,57	Purple	3-4-4	11	40	5	710	2,34
299 - 310	7,58 - 7,87	Brown	5-5	10	40	6	760	2,65
311 - 325	7,88 - 8,26	Red	5-5	10	40	6	760	2,65
326 - 340	8,27- 8,64	Blue	5 - 5	10	40	6	790	2,65
341 - 351	8,65 - 8,92	Orange	3-4-4	11	40	7	840	2,65
352 - 367	8,93 - 9,34	Green	3-4-4	11	30	6	860	2,65
368 - 380	9,35 - 9,65	Black	3-4-4	11	30	8	910	2,95
381 - 398	9,66 - 10,12	Yellow	3-4-4	11	30	7	910	2,95
399 - 413	10,13 - 10,49	Grey	3-4-4	11	30	8	970	2,9
414 - 425	10,50 - 10,81	Brown	3-4-4	11	20	5	1020	3,25
426 - 443	10,82 - 11,25	Red	3-4-4	11	20	6	1040	3,25
444 - 462	11,26 - 11,74	Blue	3-4-4	11	15	6	1140	3,66
463 - 481	11,75 - 12,22	Green	3-4-4	11	15	7,5	1170	3,665

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# Aluminium Alloy Line Splices

Right Hand Lay Standard.

CATALOGUE NO. ALS	CONDUCTOR DIAMETER (mm)	COLOUR CODE	RODS PER SUBSET	RODS PER SET	SETS PER PACK	APPROX PACK MASS (kg)	LENGTH OF FITTING (mm)	ROD DIA. (mm)
482 - 503	12,23 - 12,78	Orange	3-4-4	11	15	7	1170	3,66
504 - 521	12,79 - 13,24	Black	4-4-4	12	10	6	1190	3,66
522 - 544	13,25 - 13,82	Grey	3-4-4	11	10	7	1270	4,06
545 - 567	13,83 - 14,40	Brown	3-4-4	11	10	12	1320	4,06
568 - 594	14,41 - 15,09	Blue	3-4-4	11	10	10	1525	4,47
595 - 618	15,10 - 15,70	Yellow	3-4-4	11	10	11	1575	4,47
619 - 644	15,71 - 16,36	Orange	3-4-4	11	10	15	1650	4,88
645 - 671	16,37 - 17,04	Brown	3-4-4	11	10	15	1700	4,88
672 - 700	17,05 - 17,78	Yellow	3-4-4	11	10	15	1805	5,38
701 - 729	17,79 - 18,52	White	3-3-4	10	10	21	1905	6,35
730 - 760	18,53 - 19,30	Green	3-4-4	11	5	11	1980	6,35
761 - 792	19,31 - 20,12	Yellow	3-4-4	11	5	14	2030	6,35
793 - 825	20,13 - 20,96	Grey	3 - 4 - "4	11	5	14	2135	6,35
826 - 850	20,97 - 21,59	Brown	3-4-4	11	5	13	2185	6,35
851 - 886	21,60 - 22,50	Red	3-4-4	11	5	16	2440	6,35
887 - 929	22,51 - 23,60	Orange	2-3-3-3	11	5	21	2590	7,62
930 - 968	23,61 - 24,59	Green	2-3-3-3	11	5	27	2745	7,62
969 - 1008	24,60 - 25,60	Blue	2-3-3-3	11	5	28	2820	7,62
1009 - 1050	25,61 - 26,67	Black	2-3-3-3	11	5	30	3175	8,23
1051 - 1091	26,68 - 27,71	Red	2-3-3-3	11	5	31	3275	8,23
1092 - 1136	27,72 - 28,85	Yellow	2-3-3-3	11	5	46	3430	9,27
1137 - 1183	28,86 - 30,05	Green	2-3-3-3	11	5	48	3530	9,27
1184 - 1232	30,06 - 31,29	White	2-3-3-3	11	5	48	3710	9,27
1233 - 1299	31,30 - 32,99	Brown	2 - 3 - 3 - 3	11	5	55	3835	9,27
1300 - 1353	33,00 - 34,37	Grey	2-3-3-3	11	5	80	4191	9,27
1354 - 1409	34,38 - 35,79	White	2-3-3-3	11	5	81	4240	9,27
1410 - 1467	35,80 - 37,26	Red	2-3-3-3	11	5	84	4370	9,27
1468 - 1528	37,27 - 38,81	Green	3-3-3-3	12	5	92	4520	9,27
1529 - 1591	38,82 - 40,41	Brown	3-3-3-3	12	5	97	4650	9,27
1592 - 1657	40,42 - 42,09	White	3-3-3-3	12	5	115	4900	9,27

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# Copper Alloy Line Splices

Right Hand Lay Standard.

CATALOGUE NO. CLS	CONDUCTOR DIAMETER (mm)	COLOUR CODE	RODS PER SUBSET	RODS PER SET	SETS PER PACK	APPROX PACK MASS (kg)	LENGTH OF FITTING (mm)	ROD DIA. (mm)
189 - 195	4,80 - 4,95	Red	3-3-3	9	20	4,5	660	1,82
196 - 203	4,96 - 5,16	Orange	5-5	10	20	5,0	680	1,82
204 - 211	5,17 - 5,36	Green	5-5	10	20	5,0	680	1,82
212 - 218	5,37 - 5,54	Blue	5-5	10	20	5,5	740	1,82
219 - 230	5,55 - 5,84	Black	5-5	10	20	6,5	760	2,03
231 - 236	5,85 - 5,99	Yellow	5-5	10	20	6,5	760	2,03
237 - 247	6,00 - 6,27	White	5-5	10	20	7,0	810	2,03
248 - 258	6,29 - 6,55	Brown	5-5	10	20	7,0	840	2,03
259 - 269	6,56 - 6,83	Grey	3-4-4	11	15	6,5	860	2,03
270 - 280	6,84 - 7,11	Red	5-5	10	15	7,5	910	2,34
281 - 291	7,12 - 7,39	Orange	3-4-4	11	15	8,5	930	2,34
292 - 302	7,40 - 7,67	Green	3-4-4	11	15	8,5	940	2,34
303 - 313	7,68 - 7,95	Black	3-3-4	10	15	10,5	1040	2,64
314 - 324	7,96 - 8,23	Blue	3-3-4	10	15	11,5	1040	2,64
325 - 336	8,24 - 8,53	Yellow	3-4-4	11	15	11,5	1060	2,64
337 - 349	8,54 - 8,86	White	3-3-4	10	15	14,0	1070	2,95
350 - 364	8,87 - 9,25	Brown	3-3-4	10	15	14,0	1140	2,95
365 - 379	9,26 - 9,63	Grey	3-4-4	11	10	11,0	1140	2,95
380 - 394	9,64 - 10,00	Red	3-4-4	11	10	11,0	1170	2,95
395 - 409	10,01 - 10,39	Orange	3-3-4	10	10	13,0	1220	3,25
410 - 426	10,40 - 10,82	Green	3-4-4	11	10	14,5	1240	3,25
427 - 442	10,83 - 11,23	Black	3-4-4	11	10	15,0	1270	3,25
443 - 459	11,24 - 11,66	Blue	3-3-4	10	10	18,0	1320	3,66
460 - 474	11,67 - 12,04	Yellow	3-4-4	11	10	20,0	1400	3,66

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# Copper Alloy Line Splices

Right Hand Lay Standard.

CATALOGUE NO. CLS	CONDUCTOR DIAMETER (mm)	COLOUR CODE	RODS PER SUBSET	RODS PER SET	SETS PER PACK	APPROX PACK MASS (kg)	LENGTH OF FITTING (mm)	ROD DIA. (mm)
475 - 494	12,05 - 12,55	White	3-4-4	11	10	20,5	1450	3,66
495 - 515	12,56 - 13,08	Brown	3-4-4	11	10	21,5	1520	3,66
516 - 536	13,09 - 13,61	Grey	4-4-4	12	10	24,0	1570	3,66
537 - 555	13,63 - 14,10	Red	4-4-4	12	10	24,5	1600	3,66
556 - 570	14,11 - 14,48	Orange	4-4-4	12	10	25,0	1630	3,66
571 - 591	14,49 - 15,01	Green	4-4-5	13	10	28,0	1680	3,66
592 - 612	15,02 - 15,54	Blue	4-4-5	13	5	15,0	1730	3,66
613 - 635	15,55 - 16,13	Black	3-3-4-4	14	5	18,0	1880	4,06
636 - 661	16,14-16,79	Yellow	3-3-3-4	13	5	19,5	1880	4,06
662 - 686	16,80 - 17,42	White	3-3-3-4	13	5	20,5	1930	4,06
687 - 712	17,43 - 18,08	Brown	3-3-4-4	14	5	22,5	1980	4,06
713 - 741	18,09 - 18,82	Grey	3-3-3-4	13	5	27,5	2110	4,47
742 - 772	18,83 - 19,61	Red	3-3-3-4	13	5	29,5	2210	4,88
773 - 800	19,62 - 20,32	Orange	3 - 3 - 3 - 3	12	5	34,5	2340	5,59
801 - 833	20,33 - 21,16	Green	3-3-3-3	12	5	38,5	2410	5,59
834 - 868	21,17 - 22,05	Blue	3-3-3-4	13	5	39,0	2460	5,59
869 - 904	22,06 - 22,96	Black	3-3-3-4	13	5	44,0	2540	5,59
905 - 942	22,97 - 23,93	Yellow	3 - 3 - 3 - 4	13	5	54,5	2570	5,89

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# Galvanised Steel Line Splices

Right Hand Lay Standard.

CATALOGUE NO. SLS	CONDUCTOR DIAMETER (mm)	COLOUR CODE	RODS PER SUBSET	RODS PER SET	SETS PER PACK	APPROX PACK MASS (kg)	LENGTH OF FITTING (mm)
108	2,74	Orange	4-4	8	20	1,5	380
144	3,66	Brown	4-4	8	20	2,5	530
175	4,4	Blue	4-4	8	20	3,5	660
186	4,06	Green	4-4	8	20	3,5	685
192	4,88	Yellow	4-4	8	20	4,0	710
227	5,77	Red	5-5	10	20	5,0	790
240	6,10	Orange	5-5	10	20	5,0	810
277	7,04	Black	5-5	10	20	7,5	940
312	7,93	Brown	5 - 5	10	20	6,0	990
320	8,13	Green	5-5	10	20	9,5	1040
345	8,76	Red	3-3-4	10	15	8,0	1120
384	9,75	Black	4-4-4	12	15	10,0	1190
386	9,80	Black	4-4-4	12	15	10,0	1190
396	10,05	Blue	4-4-4	12	15	10,5	1220
400	10,16	Yellow	4-4-4	12	15	10,5	1220
432	10,97	Brown	4-4-4	12	15	14,0	1400
480	12,19	Green	4-4-4	12	10	12,5	1500
520	13,21	Orange	3-3-4	10	10	17,0	1650
640	16,26	Brown	3 - 3 -3 - 3	12	10	30,0	2030

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