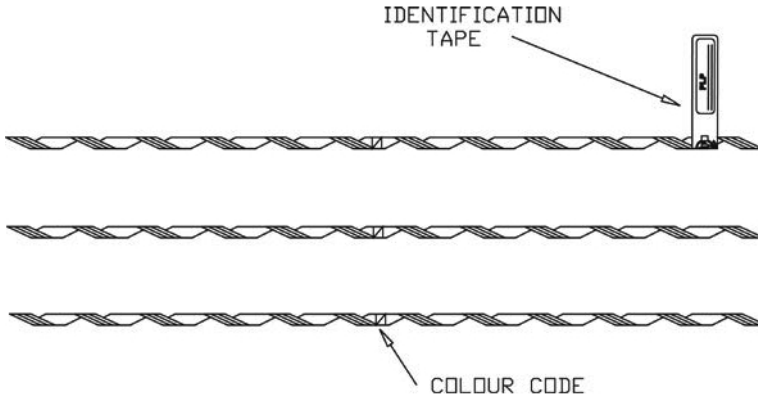


Armor Splice



General Recommendations

PREFORMED™ ARMOR SPLICE is designed as a single component outer layer assembly to repair severe conductor damage which has occurred under suspension clamp or pin-insulator binder position.

Joining: On All-aluminium, Aluminium Alloy and copper conductors of homogeneous stranding the Armor Splice will hold the full rated breaking strength of, and provide better conductance than an equal length of unspliced conductor.

On ACSR conductor the Armor 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 an equivalent length of unspliced conductor.

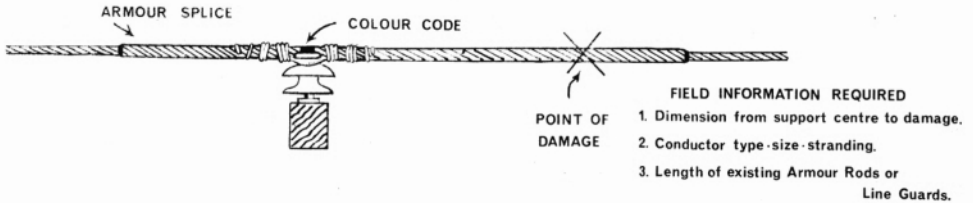
Restorative-Repair: Armor Splice will restore original conductivity to All-Aluminium, Aluminium Alloy, Copper and ACSR, conductors. Full rated breaking strength will be restored to homogeneous stranded conductors. On ACSR strength will be restored to all of the Aluminium strands, but not to the core. When core damage to ACSR, is suspended see catalogue sheets 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: See data sheets for individual sizes. In arriving at "Rated Holding Strength", actual results of tests on un-weathered conductors are studied and consideration is given to dimension at tolerances for the sizes encompassed.

[INDEX](#)

D - 33

Armor Splice



Application and Inspection: 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. Lay direction of both the splice and the conductor must be the same.

Production Information: The ARMOR SPLICE combines the features of both ARMOR RODS and Conductor Splices, which are described in their respective catalogue sections. The ARMOR SPLICES should be considered when damage occurs in the “support area” or where installation would locate the ends of repair rods within 150 mm of existing rods.

Upon receipt of the field information specified above, the factory will furnish the correct Catalogue Number. The Armor Splice is custom designed to assure that when the colour code mark is centred at the support point, a continuous length will extend beyond the area of damage.

INDEX

D - 34



Copyright 2010 Preformed Line Products • All rights reserved
Telephone: 033 397 5800 • Facsimile: 033 387 7094
Email: plppmb@preformedsa.co.za
Website: www.preformedsa.co.za

Aluminum Alloy Armor Splices

Right Hand Lay Standard.

CATALOGUE NO. AAS	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 – 3	6	30	4.5	910	2.64
141 – 147	3.58 – 3.75	Brown	3 – 3	6	30	4.5	910	2.64
148 – 154	3.76 – 3.93	Red	3 – 3	6	30	4.5	910	2.64
155 – 161	3.94 – 4.09	Orange	3 – 3	6	30	4.5	910	2.64
162 – 168	4.10 – 4.28	Green	3 – 3	6	30	4.5	910	2.64
169 – 176	4.29 – 4.48	Yellow	3 – 4	7	30	4.5	910	2.64
177 – 184	4.49 – 4.67	Grey	3 – 3	6	30	5.5	910	2.95
185 – 193	4.68 – 4.90	Red	3 – 4	7	30	5.5	910	2.95
194 – 202	4.91 – 5.13	Blue	3 – 4	7	30	6.5	1020	2.95
203 – 212	5.14 – 5.38	Black	3 – 4	7	30	6.5	1020	2.95
213 – 219	5.39 – 5.56	Green	3 – 4	7	30	6.5	1020	3.25
220 – 228	5.57 – 5.79	White	3 – 4	7	30	6.5	1020	3.25
229 – 239	5.80 – 6.07	Brown	3 – 4	7	30	6.5	1020	3.25
240 – 246	6.08 – 6.25	Red	3 – 4	7	30	9.5	1040	3.66
247 – 257	6.26 – 6.53	Orange	3 – 4	7	30	9.5	1070	3.66
258 – 270	6.54 – 6.86	Green	3 – 4	7	30	9.5	1090	3.66
271 – 280	6.87 – 7.11	Yellow	3 – 4	7	30	9.5	1090	3.66
281 – 289	7.12 – 7.34	White	3 – 4	7	30	9.5	1120	3.66
290 – 298	7.35 – 7.57	Purple	4 – 4	8	25	9.5	1140	3.66
299 – 310	7.58 – 7.87	Brown	4 – 4	8	25	9.5	1170	3.66
311 – 325	7.88 – 8.26	Red	4 – 4	8	25	9.5	1170	3.66
326 – 340	8.27 – 8.64	Blue	4 – 4	8	25	9.5	1190	3.66
341 – 351	8.65 – 8.92	Orange	3 – 3 – 3	9	25	11.5	1220	3.66
352 – 367	8.93 – 9.34	Green	3 – 3 – 3	9	25	11.5	1240	3.66

INDEX

D - 35



Aluminum Alloy Armor Splices

Right Hand Lay Standard.

CATALOGUE NO. AAS	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)
368 – 380	9.35 – 9.65	Black	4 – 4	8	25	14.0	1320	4.06
381 – 398	9.66 – 10.12	Yellow	3 – 3 – 3	9	25	14.0	1350	4.06
399 – 413	10.13 – 10.49	Grey	3 – 3 – 3	9	25	16.5	1380	4.06
414 – 425	10.50 – 10.81	Brown	3 – 3 – 3	9	25	16.5	1400	4.06
426 – 443	10.82 – 11.25	Red	3 – 3 – 3	9	25	17.0	1380	4.06
444 – 462	11.26 – 11.74	Blue	3 – 3 – 4	10	20	16.0	1450	4.06
463 – 481	11.75 – 12.22	Green	3 – 3 – 4	10	20	16.0	1470	4.06
482 – 503	12.23 – 12.78	Orange	3 – 3 – 4	10	20	16.0	1500	4.06
504 – 521	12.79 – 13.24	Black	3 – 4 – 4	11	20	16.0	1550	4.06
522 – 544	13.25 – 13.82	Grey	3 – 3 – 4	10	15	18.0	1650	4.88
545 – 567	13.83 – 14.40	Brown	3 – 3 – 4	10	15	18.0	1700	4.88
568 – 594	14.41 – 15.10	Blue	3 – 3 – 4	10	15	22.0	2010	5.38
595 – 618	15.11 – 15.70	Yellow	3 – 3 – 3	9	15	27.0	2010	6.40
619 – 644	15.71 – 16.37	Orange	3 – 3 – 3	9	15	27.0	2060	6.40
645 – 671	16.38 – 17.05	Red	3 – 3 – 4	10	15	33.0	2110	6.40
672 – 700	17.06 – 17.78	Yellow	3 – 3 – 4	10	15	38.0	2160	6.40
701 – 729	17.79 – 18.52	White	3 – 3 – 4	10	10	26.0	2210	6.40
730 – 760	18.53 – 19.30	Black	3 – 4 – 4	11	10	26.0	2290	6.40
761 – 792	19.31 – 20.12	Yellow	3 – 4 – 4	11	10	31.0	2340	6.40
793 – 825	20.13 – 20.96	Grey	3 – 4 – 4	11	10	31.0	2440	6.40
826 – 850	20.97 – 21.59	Brown	3 – 4 – 4	11	10	31.0	2490	6.40
851 – 886	21.60 – 22.50	Red	3 – 4 – 4	11	10	39.0	2750	6.40
887 – 929	22.51 – 23.60	Orange	4 – 4 – 4	11	5	26.0	2900	7.62
930 – 968	23.61 – 24.59	Green	4 – 4 – 4	12	5	28.0	2980	7.62

INDEX

D - 36



Copyright 2010 Preformed Line Products • All rights reserved
 Telephone: 033 397 5800 • Facsimile: 033 387 7094
 Email: plppmb@preformedsa.co.za
 Website: www.preformedsa.co.za

Aluminum Alloy Armor Splices

Right Hand Lay Standard.

CATALOGUE NO. AAS	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)
969 – 1008	24.60 – 25.60	Blue	3 – 4 – 4	11	5	30.0	3130	7.62
1009 – 1050	25.61 – 26.67	Black	4 – 4 – 4	12	5	32.0	3480	7.62
1051 – 1091	26.68 – 27.71	Red	3 – 4 – 4	11	5	36.0	3580	7.62
1092 – 1136	27.72 – 28.85	Yellow	3 – 4 – 4	11	5	50.0	3740	9.27
1137 – 1183	28.86 – 30.05	Green	3 – 4 – 4	11	5	52.0	3840	9.27
1184 – 1232	30.06 – 31.29	White	3 – 4 – 4	11	5	53.0	4020	9.27
1233 – 1299	31.30 – 33.00	Brown	3 – 4 – 4	11	5	61.0	4140	9.27
1300 – 1353	33.01 – 34.37	Grey	3 – 4 – 4	11	5	86.0	4450	9.27
1354 – 1409	34.38 – 35.79	White	3 – 4 – 4	11	5	86.0	4550	9.27
1410 – 1467	35.80 – 37.26	Red	3 – 4 – 4	11	5	86.0	4680	9.27
1468 – 1528	37.27 – 38.81	Green	3 – 3 – 3 – 3	12	5	101.0	4800	9.27

INDEX

D - 37



Copper Alloy Armor Splice

Right Hand Lay Standard.

CATALOGUE NO. CAS	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 – 4	7	20	9.5	1090	2.64
196 – 203	4.96 – 5.16	Orange	3 – 4	7	20	9.5	1110	2.64
204 – 211	5.17 – 5.36	Green	4 – 4	8	20	12.0	1110	2.64
212 – 218	5.37 – 5.54	Blue	4 – 4	8	20	12.0	1140	2.64
219 – 230	5.55 – 5.84	Black	4 – 4	8	20	12.0	1170	2.64
231 – 236	5.85 – 5.99	Yellow	4 – 4	8	20	12.0	1190	2.64
237 – 247	6.00 – 6.27	White	4 – 4	9	20	14.0	1220	2.64
248 – 258	6.28 – 6.55	Brown	3 – 3 – 3	9	20	14.0	1250	2.64
259 – 269	6.56 – 6.83	Grey	3 – 3 – 3	9	15	12.0	1270	2.64
270 – 280	6.84 – 7.11	Red	3 – 3 – 3	9	15	12.0	1300	2.64
281 – 291	7.12 – 7.39	Orange	3 – 3 – 4	10	15	13.0	1320	2.64
292 – 302	7.40 – 7.67	Green	3 – 3 – 3	9	15	13.0	1350	2.64
303 – 313	7.68 – 7.95	Blue	3 – 3 – 3	9	15	15.0	1420	3.25
314 – 324	7.96 – 8.23	Black	3 – 3 – 3	9	15	19.0	1370	3.25
325 – 336	8.24 – 8.53	Yellow	3 – 3 – 3	9	15	19.0	1390	3.25
337 – 349	8.54 – 8.86	White	3 – 3 – 3	9	15	19.0	1420	3.25
350 – 364	8.87 – 9.25	Brown	3 – 3 – 4	10	15	19.0	1440	3.25
365 – 379	9.26 – 9.63	Grey	3 – 3 – 3	9	10	15.0	1470	3.25
380 – 394	9.64 – 10.00	Red	3 – 3 – 4	10	10	18.5	1570	3.66
395 – 409	10.01 – 10.39	Orange	3 – 3 – 4	10	10	20.5	1590	3.66
410 – 426	10.40 – 10.82	Green	3 – 3 – 4	9	10	21.0	1620	3.66
427 – 442	10.83 – 11.23	Black	3 – 3 – 4	10	10	24.5	1700	4.06
443 – 459	11.24 – 11.64	Blue	3 – 3 – 4	10	10	28.0	1750	4.06

INDEX



Copper Alloy Armor Splice

Right Hand Lay Standard.

CATALOGUE NO. CAS	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)
460 – 474	11.65 – 12.04	Yellow	3 - 3 - 4	10	10	28.5	1780	4.06
475 – 494	12.05 – 12.55	White	3 - 4 - 4	11	10	29.5	1830	4.06
495 – 515	12.56 – 13.08	Brown	3 - 4 - 4	11	10	30.0	1880	4.06
516 – 536	13.09 – 13.61	Grey	3 - 4 - 4	11	10	34.0	1930	4.06
537 – 555	13.62 – 14.10	Red	3 - 4 - 4	12	10	34.5	1950	4.06
556 – 570	14.11 – 14.48	Orange	3 - 3 - 3 - 3	12	10	35.1	2010	4.06
571 – 591	14.49 – 15.01	Green	3 - 3 - 3 - 3	12	5	20.0	2030	4.06
592 – 612	15.02 – 15.54	Blue	3 - 3 - 3 - 3	13	5	20.5	2080	4.06
613 – 635	15.55 – 16.13	Black	3 - 3 - 3 - 4	12	5	21.0	2180	4.06
636 – 661	16.14 – 16.79	Yellow	3 - 3 - 3 - 3	12	5	27.0	2240	4.47
662 – 686	16.80 – 17.42	White	3 - 3 - 3 - 3	13	5	28.0	2290	4.47
687 – 712	17.43 – 18.08	Brown	3 - 3 - 3 - 4	13	5	28.5	2340	4.47
713 – 741	18.09 – 18.82	Grey	3 - 3 - 3 - 4	13	5	32.0	2410	4.47
742 – 772	18.83 – 19.61	Red	3 - 3 - 3 - 4	12	5	32.5	2510	4.88
773 – 800	19.62 – 20.32	Orange	3 - 3 - 3 - 3	12	5	39.5	2640	5.00
801 – 833	20.33 – 21.16	Green	3 - 3 - 3 - 3	13	5	43.5	2720	5.00
834 – 868	21.17 – 22.05	Blue	3 - 3 - 3 - 4	13	5	43.5	2770	5.00
869 – 904	22.06 – 22.96	Black	3 - 3 - 3 - 4	13	5	49.5	2840	5.00
905 – 942	22.97 – 23.93	Yellow	3 - 3 - 3 - 4	13	5	60.5	3730	5.89

INDEX

D - 39

