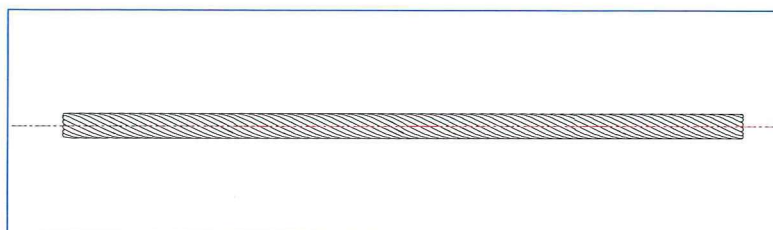


JOINTING, REPAIR AND PROTECTION

PREFORMED™ Line Guards



Application

The PREFORMED™ Line Guards are intended to protect conductors/strands against bending, compression, abrasion and arcover damage and to provide restorative repair.

The degree of protection needed on a specific line depends upon a number of factors such as, line design, temperature, tension, exposure to wind flow and vibration history on similar construction in the same area. As a general guide, the following recommendations may be adapted to the specific conditions:

Line Guards are recommended as minimum protection for hand tied spans of less than 90m in urban construction having no experience of vibration.

No consideration for damping devices with Line Guards is made because Line Guards are not recommended when vibration is suspected.

Distribution Ties are recommended as being superior to Line Guards secured with hand tie wire. They protect against chafing or wear caused by windsway or unbalanced loading in areas having no experience of vibration.

Armour Rods are recommended as minimum protection for clamp-type supports or suspensions and for use with hand-tied spans exceeding 90m.

Line Guards may be used as patch rods designed to restore full conductivity and mechanical strength to conductors/strands where damage does not exceed 25% of the outer strand layer when located outside the support area and is located within the centre third section of the repair fitting.

Where damage is found at the point of support and for advice on the repair capabilities of specific strandings, consult our representative at our sales department at Andover.

Other PREFORMED™ products with restorative repair capabilities are Armour Rods, Armour Splice, ACSR FT, Line Splice, Repair Sleeve and AGS for Line Repair. Refer to appropriate sections and also to the repair chart in this section giving comparative details of PLP (GB) Ltd's repair fittings.

Line Guards may be used as tap armour to protect conductors from wear and flash-over under taps.

Cleaning and preparation: Optimum electrical performance from Line Guards used as tap armour can only be achieved if the following instructions are observed:

Wire Brushing: All conductors, new or weathered, **MUST** be thoroughly wire brushed before Line Guards are applied.

Inhibitors: All conductors, new or weathered, **MUST** be coated with quality inhibitor along the area where the Line Guards is to be applied. Line Guards **MUST NOT** be re-used after original application. After application of the correct number of rods per set a slight gap between the rods should be present.

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PREFORMED™ Line Guards

Construction	PREFORMED™ Line Guards are made of material compatible with the strand to which they are applied.
Lay Direction	The lay direction must be the same as that of the outer stranding of the conductor to which it is applied.
Product Referencing and Ordering	<p>Contact PLP (GB) Ltd with the following information:-</p> <ul style="list-style-type: none">• Quantity• Catalogue number• Product Name• Strand: Material<ul style="list-style-type: none">DiameterRated breaking strengthLay direction• Special instructions eg. double support, special packaging <p>NOTE: Standard single support length will be supplied unless double support length is specified.</p>

JOINTING, REPAIR AND PROTECTION

PREFORMED™ Line Guards-Aluminium Alloy

CATALOGUE No.	CONDUCTOR DIAMETER mm		COLOUR CODE	LENGTH mm	RODS PER SET	ROD DIAMETER	APPROX WEIGHT KGS PER 100
	MIN	MAX					
LG2005601	3.38	3.60	WHITE	381	6	2.34	3
LG2005602	3.61	3.83	BROWN	381	7	2.34	3
LG2005603	3.84	4.08	ORANGE	432	7	2.34	4
LG2005604	4.09	4.36	GREEN	432	7	2.34	4
LG2005605	4.37	4.61	YELLOW	432	8	2.34	4
LG2005606	4.62	4.92	PURPLE	432	7	2.64	5
LG2005607	4.93	5.27	BLUE	432	7	2.64	5
LG2005608	5.28	5.58	BLACK	432	7	2.95	6
LG2005609	5.59	5.81	WHITE	432	8	2.95	7
LG2005610	5.82	6.19	BROWN	483	8	2.95	8
LG2005611	6.20	6.59	ORANGE	483	8	2.95	8
LG2005612	6.60	6.95	GREEN	483	9	2.95	9
LG2005613	6.96	7.36	YELLOW	533	9	2.95	10
LG2005614	7.37	7.84	PURPLE	533	9	2.95	10
LG2005615	7.85	8.30	RED	533	10	2.95	10
LG2005616	8.31	8.80	BLUE	533	10	2.95	10
LG2005617	8.81	9.49	BLACK	584	11	2.95	13
LG2005618	9.50	9.90	WHITE	584	11	2.95	13
LG2005619	9.91	10.51	YELLOW	635	12	2.95	15
LG2005620	10.52	11.09	BROWN	635	12	2.95	15
LG2005621	11.10	11.78	BLUE	686	12	3.25	20
LG2005622	11.79	12.46	GREEN	686	12	3.25	20
LG2005623	12.47	13.25	ORANGE	737	13	3.25	23
LG2005624	13.26	14.01	PURPLE	737	14	3.25	25
LG2005625	14.02	14.87	RED	787	14	3.25	26
LG2005626	14.88	15.41	BLACK	787	14	3.66	33
LG2005627	15.42	16.02	WHITE	838	14	3.66	36
LG2005628	16.03	16.65	YELLOW	838	14	3.66	36
LG2005629	16.66	17.26	BROWN	889	15	3.66	40
LG2005630	17.27	17.87	BLUE	889	15	3.66	40
LG2005631	17.88	18.81	GREEN	940	16	3.66	45
LG2005632	18.82	20.13	ORANGE	991	17	3.66	51
LG2005633	20.14	21.35	PURPLE	991	18	3.66	54
LG2005634	21.36	22.82	BLUE	1041	19	3.66	59
LG2005635	22.83	24.25	GREEN	1092	18	4.06	73
LG2005636	24.26	25.06	WHITE	1143	17	4.47	87
LG2005637	25.07	25.82	YELLOW	1143	18	4.47	92
LG2005638	25.83	27.04	BROWN	1194	17	4.88	108
LG2005639	27.05	27.91	GREEN	1245	16	5.38	130
LG2005640	27.92	29.30	ORANGE	1245	15	5.89	146
LG2005641	29.31	30.70	PURPLE	1295	15	6.40	179
LG2005642	30.71	32.22	BLACK	1346	16	6.40	198
LG2005643	32.23	33.72	WHITE	1346	16	6.40	198
LG2005644	33.73	35.32	YELLOW	1397	17	6.40	218

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JOINTING, REPAIR AND PROTECTION

PREFORMED™ Line Guards-Aluminium Alloy

CATALOGUE No.	CONDUCTOR DIAMETER mm		COLOUR CODE	LENGTH mm	RODS PER SET	ROD DIAMETER	APPROX WEIGHT KGS PER 100
	MIN	MAX					
LG2005645	35.33	36.59	BROWN	1448	16	7.01	257
LG2005646	36.60	38.32	BLUE	1499	16	7.62	313
LG2005647	38.33	40.10	GREEN	1549	16	7.62	323
LG2005648	40.11	41.95	ORANGE	1600	16	8.23	389
LG2005649	41.96	43.90	PURPLE	1651	16	8.84	463
LG2005650	43.91	45.90	RED	1702	15	9.45	512

For use on Aluminium Based Conductors

JOINTING, REPAIR AND PROTECTION

PREFORMED™ Line Guards-Copper Alloy

CATALOGUE No.	CONDUCTOR DIAMETER mm		COLOUR CODE	LENGTH mm	RODS PER SET	ROD DIAMETER	APPROX WEIGHT KGS PER 100
	MIN	MAX					
LG2205801	3.43	3.65	BLACK	432	7	2.03	10
LG2205802	3.66	3.88	BLUE	457	7	2.34	13
LG2205803	3.89	4.05	GREY	483	7	2.34	14
LG2205804	4.06	4.28	GREEN	483	7	2.64	18
LG2205805	4.29	4.54	RED	508	7	2.64	19
LG2205806	4.55	4.79	BLACK	508	7	2.64	19
LG2205807	4.80	4.97	BLUE	508	7	2.64	19
LG2205808	4.98	5.27	GREY	508	8	2.64	22
LG2205809	5.28	5.53	GREEN	508	8	2.64	22
LG2205810	5.54	5.73	RED	508	8	2.64	22
LG2205811	5.74	6.01	BLACK	508	8	2.64	22
LG2205812	6.02	6.34	BLUE	533	9	2.64	25
LG2205813	6.35	6.69	GREY	533	9	2.64	25
LG2205814	6.70	7.05	GREEN	533	9	2.64	25
LG2205815	7.06	7.51	RED	533	10	2.64	28
LG2205816	7.52	7.99	BLACK	559	9	2.95	34
LG2205817	8.00	8.47	BLUE	584	9	3.25	42
LG2205818	8.48	8.96	GREY	610	9	3.25	44
LG2205819	8.97	9.46	GREEN	635	10	3.25	50
LG2205820	9.47	9.97	RED	660	9	3.66	59
LG2205821	9.98	10.38	BLACK	660	10	3.66	66
LG2205822	10.39	10.81	BLUE	686	10	3.66	68
LG2205823	10.82	11.44	GREY	686	10	4.06	87
LG2205824	11.45	12.11	GREEN	711	10	4.06	90
LG2205825	12.12	12.82	RED	711	11	4.06	99
LG2205826	12.83	13.58	BLACK	737	11	4.06	102
LG2205827	13.59	14.37	BLUE	737	12	4.06	111
LG2205828	14.38	15.05	GREY	762	12	4.06	115
LG2205829	15.06	15.89	GREEN	762	13	4.06	125
LG2205830	15.90	16.93	RED	787	12	4.47	145
LG2205831	16.94	17.82	BLACK	787	13	4.47	158
LG2205832	17.83	18.68	BLUE	813	13	4.47	163
LG2205833	18.69	19.49	GREY	813	14	4.47	175
LG2205834	19.50	20.28	GREEN	838	14	4.88	210
LG2205835	20.29	21.38	RED	864	15	4.88	232
LG2205836	21.39	22.62	BLACK	889	14	5.38	269
LG2205837	22.63	23.89	BLUE	914	15	5.38	297
LG2205838	23.90	25.29	GREY	940	14	5.89	341
LG2205839	25.30	26.81	GREEN	965	15	5.89	375
LG2205840	26.82	28.46	RED	1016	14	6.40	434
LG2205841	28.47	30.14	BLACK	1067	15	6.40	488
LG2205842	30.15	31.97	BLUE	1092	14	7.01	535
LG2205843	31.98	33.89	GREY	1193	15	7.62	708
LG2205844	33.90	36.02	GREEN	1219	14	8.23	752

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