



PREFORMED LINE PRODUCTS

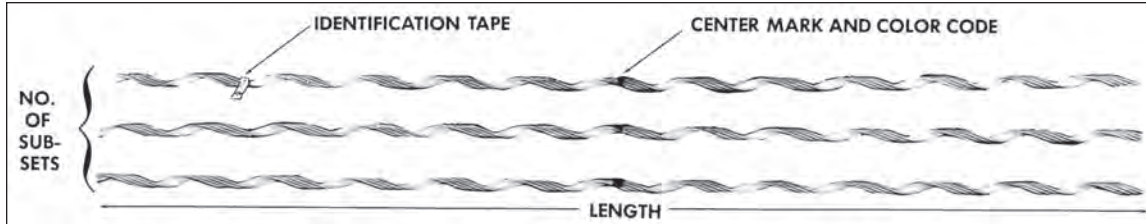
Section 3 – Transmission: Splices

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Conductor Splices

NOMENCLATURE



Sub-Sets: Individual rods assembled and gritted into groups (subsets), corresponding to tabular information appearing on catalog page.

Center Mark: Establishes recommended alignment of rods during application.

Color Code and Length: Assist in identification of conductor size, corresponding to tabular information appearing on catalog page.

Identification Tape: Shows catalog number, nominal sizes.

GENERAL RECOMMENDATIONS

Conductor Splices are designed as a single-component outer-layer assembly generally for Sub-EHV applications. Conductor Splices are available for EHV applications. Contact PLP for details.

JOINING: On all-aluminum, aluminum alloy, and copper conductors of homogenous stranding, the 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, the Conductor Splice will hold a minimum tension amounting to the full strength of the aluminum 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-aluminum, aluminum 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 aluminum strands, but not to the core. When core damage on ACSR is suspected, consult the following catalog section for Splice: ACSR F.T.

Other PREFORMED™ products with restorative-repair capabilities are Armor Rods, Line Guards, and ARMOR-GRIP® Suspension: for Line Repair.

RATED HOLDING STRENGTH: Published for individual sizes on the page following the specification page. In arriving at "Rated Hold Strength," actual results of tests on unweathered conductor are studied, and consideration is given to dimensional tolerances for the sizes encompassed.

APPLICATION-INSPECTION: All conductors, new or weathered, must be thoroughly scratch brushed until bright and clean. Immediately thereafter, an industry accepted inhibitor (compatible with the conductor) should be applied before installing the product.

TAPPING: Tapping over a conductor splice is permissible. Whenever 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.

Thermal Rating (Continuous)
125°C



Conductor Splices

DESIGN MODIFICATIONS

Armor Splice

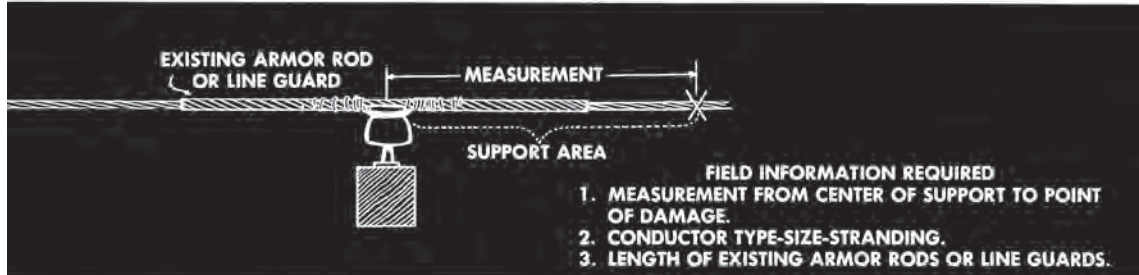


FIG. 2

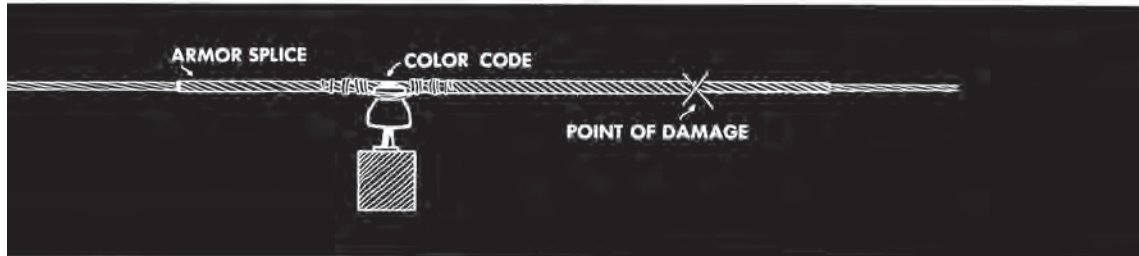


FIG. 3

The Armor Splice combines the features of both Armor Rods and Conductor Splices, which are described in their respective catalog sections. The Armor Splice should be considered when damage occurs in the "support area," or where installation would locate the ends of repair rods within 6 inches of existing rods.

Upon receipt of the field information specified in Figure 2, PLP will furnish the correct Catalog Number. The Armor Splice is custom designed to assure that when the color code mark is centered at the support point, a continuous length will extend beyond the area of damage. (See Figure 3)

Conductor Splices

O.D. CALCULATIONS

Applied overall diameter computed as follows:

The rod diameter can be obtained from the price page tables.

Conductor O.D. can be found in the Conductor Chart, General Information Section.

Rod Diam.	.121" x 2 = .242"
Conductor Diam.	+ .398"
Total Applied O.D.	.640"

SAFETY CONSIDERATIONS

1. This product is intended for a single (one-time) use and for the specified application. **CAUTION: DO NOT REUSE OR MODIFY THIS PRODUCT UNDER ANY CIRCUMSTANCES.**
2. This product is intended for use by trained craftspeople only. This product **SHOULD NOT BE USED** by anyone who is not familiar with and trained in the use of it.
3. When working in the area of energized lines with this product, **EXTRA CARE** should be taken to prevent accidental electrical contact.
4. For **PROPER PERFORMANCE AND PERSONAL SAFETY** be sure to select the proper size **PREFORMED™ Splice: Conductor** before application.
5. **PREFORMED Splice: Conductors** are precision devices. To insure proper performance, they should be stored in cartons under cover and handled carefully.



Conductor Splices: Aluminum

**For use on:
ACSR, All-Aluminum
Aluminum Alloy
AWAC® Conductor**



Catalog Number	Diameter Range (Inches)		Nominal Conductor Size	Units per carton	Wt./lbs. per carton	Length (Inches)	Rod Diameter (Inches)	No. of Subsets	Color Code
	Min.	Max.							
LS-0106	.177	.184	#6, 7W All-Alum.	50	6	21	.086	2	Purple
LS-0108	.194	.202	#6, 6/1 #6, 7W Alum. Alloy	50	6	22	.086	2	Blue
LS-0112	.229	.239	#4, 7W All-Alum.	50	9	24	.086	2	Brown
LS-0114	.247	.257	#4, 6/1 - 7/1 #4, 7W Alum. Alloy	50	10	26	.094	3	Orange
LS-0115	.258	.270	#3, 7W All-Alum.	50	11	26	.094	3	Green
LS-0116	.271	.280	#3, 7W Alum. Alloy	50	12	27	.094	3	Yellow
LS-0118	.290	.298	#2, 7W All-Alum.	50	13	28	.094	3	Purple
LS-0119	.299	.310	#2, AWAC 6/1 #3, AWAC 5/2	50	15	30	.102	3	Brown
LS-0120	.311	.325	#2, 6/1 - 7/1 #2, 7W Alum. Alloy	50	16	31	.102	3	Red
LS-0121	.326	.340	#1, 7W All-Alum.	50	16	31	.102	3	Blue
LS-0122	.341	.351	#1, AWAC 6/1	50	17	33	.102	3	Orange
LS-0123	.352	.367	#1, 6/1 #1, 7W Alum. Alloy	50	19	34	.102	3	Green
LS-0124	.368	.380	#1, AWAC 5/2 1/0, 7W All-Alum.	50	27	38	.121	3	Black
LS-0125	.381	.398	1/0, AWAC 6/1 1/0, 6/1 1/0, 7W Alum. Alloy	50	27	38	.121	3	Yellow
LS-0127	.414	.425	2/0, 7W All-Alum.	50	27	40	.121	3	Brown
LS-0129	.444	.462	2/0, 6/1 2/0, 7W Alum. Alloy	50	37	42	.136	3	Blue
LS-0130	.463	.481	3/0, 7W All-Alum.	50	43	46	.136	3	Green
LS-0131	.482	.503	3/0, 7W, Alum. Alloy 3/0, AWAC 6/1 3/0, 6/1	50	46	46	.146	3	Orange

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Rated Holding Strengths are listed on the next page.
- (2) Nominal Conductor size indicates one of various conductors within each range. Refer to the next page for additional conductor sizes interchangeable with the same conductor splice. Consult PLP for sizes not shown.
- (3) AWAC and Copperweld are registered trademarks of the Copperweld Co.

Conductor Splices: Aluminum

RATED HOLDING STRENGTHS					
Holding strengths of the applied splices are shown in pounds. Percentage of conductor RBS shown in parentheses.					
Catalog Number	Size	ACSR	All-Aluminum	Aluminum Alloy	AWAC®
LS-0106	#6		#6, 7W 555 lbs. (100%)		
LS-0108	#6	#6, 6/1 702 lbs. (60%)		#6, 7W 1,050 lbs. (100%)	
LS-0112	#4		#4, 7W 875 lbs. (100%)		
LS-0114	#4	#4, 6/1 1,098 lbs. (60%) #4, 7/1 1,374 lbs. (60%)		#4, 7W 1,670 lbs. (100%)	
LS-0115	#3		#3, 7W 1,023 lbs. (100%)		
	#4				#4, 5/2 2,790 lbs. (100%)
LS-0116	#3			#3, 7W 2,150 lbs. (100%)	
LS-0118	#2		#2, 7W 1,335 lbs. (100%)		
LS-0119	#3				#3, 5/2 3,500 lbs. (100%)
	#2				#2, 6/1 1,590 lbs. (60%)
LS-0120	#2	#2, 6/1 1,674 lbs. (60%) #2, 7/1 2,115 lbs. (60%)		#2, 7W 2,655 lbs. (100%)	
LS-0121	#1		#1, 7W 1,625 lbs. (100%)		
LS-0122	#1				#1, 6/1 1,986 lbs. (60%)
LS-0123	#1	#1, 6/1 2,088 lbs. (60%)		#1, 7W 3,420 lbs. (100%)	
LS-0124	#1				#1, 5/2 5,450 lbs. (100%)
	1/0		1/0, 7W 1,970 lbs. (100%)		
LS-0125	1/0	1/0, 6/1 2,568 lbs. (60%)		1/0, 7W 4,230 lbs. (100%)	1/0, 6/1 2,448 lbs. (100%)
LS-0127	2/0		2/0, 7W 2,480 lbs. (100%)		
LS-0129	2/0	2/0, 6/1 2,940 lbs. (55%)		2/0, 7W 5,055 lbs. (100%)	
LS-0130	3/0		3/0, 7W 3,005 lbs. (100%)		
LS-0131	3/0	3/0, 6/1 3,671 lbs. (55%)		3/0, 7W 6,365 lbs. (100%)	3/0, 6/1 3,333 lbs. (55%)

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Refer to General Recommendations at the beginning of this section for explanation of "Rated Holding Strength"
- (2) For sizes or strandings not shown, consult PLP.
- (3) Refer to the Splice: ACSR F. T. section for an alternate product with higher Rated Holding Strength on ACSR type conductors.
- (4) AWAC and Copperweld are registered trademarks of the Copperweld Co.



Conductor Splices: Aluminum

**For use on:
ACSR, All-Aluminum
Aluminum Alloy
AWAC® Conductor**



Catalog Number	Diameter Range (Inches)		Nominal Conductor Size	Units per carton	Wt./ Lbs. per carton	Length (Inches)	Rod Diameter (Inches)	No. of Subsets	Color Code
	Min.	Max.							
LS-0133	.522	.544	3/0, AWAC 5/2 4/0, 7W All-Alum.	50	66	51	.167	3	Black
LS-0134	.545	.567	4/0, 7W Alum. Alloy 4/0, 6/1	25	33	52	.167	3	Red
LS-0135	.568	.594	250, 19W-37W All-Alum. 4/0, AWAC 15/4 266.8, 7W-19W-37W All-Alum.	25	48	61	.182	3	Blue
LS-0136	.595	.618	266.8, 18/1	25	50	63	.182	3	Purple
LS-0137	.619	.644	266.8, 26/7 300, 19W-37W All-Alum.	25	58	67	.182	3	Yellow
LS-0138	.645	.671	300, 18/1 336.4, 19W-37W All-Alum.	25	66	69	.204	3	Brown
LS-0139	.672	.700	300, 26/7 - 30/7 336.4, 18/1 - 36/1 350, 19W-37W All-Alum.	25	68	70	.204	3	Orange

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Rated Holding Strengths are listed on the next page.
- (2) Nominal Conductor size indicates one of various conductors within each range. Refer to the next page for additional conductor sizes interchangeable with the same conductor splice. Consult PLP for sizes not shown.
- (3) For an example of applied overall diameter see "O.D. CALCULATIONS" at the beginning of this section.

Conductor Splices: Aluminum

RATED HOLDING STRENGTHS					
Holding strengths of the applied splices are shown in pounds. Percentage of conductor RBS shown in parentheses.					
Catalog Number	Size	ACSR	All-Aluminum	Aluminum Alloy	AWAC®
LS-0133	3/0				3/0, 5/2 9,660 lbs. (100%)
	4/0		4/0, 7W 3,790 lbs. (100%)		
LS-0134	4/0	4/0, 6/1 4,631 lbs. (55%)		4/0, 7W 8,025 lbs. (100%)	4/0, 6/1 4,059 lbs. (55%)
LS-0135	4/0				4/0, 15/4 7,560 lbs. (70%)
	250MCM		250, 19W 4,510 lbs. (100%) 250, 37W 4,860 lbs. (100%)		
	266.8MCM		266.8, 7W 4,775 lbs. (100%) 266.8, 19W 4,800 lbs. (100%) 266.8, 37W 5,185 lbs. (100%)		
LS-0136	266.8MCM	266.8, 18/1 5,130 lbs. (75%)			
LS-0137	266.8MCM	266.8, 26/7 5,625 lbs. (50%)		266.8, 19W 10,610 lbs. (100%)	
	300MCM		300, 19W 5,300 lbs. (100%) 300, 37W 5,830 lbs. (100%)		
LS-0138	300MCM	300, 18/1 5,768 lbs. (75%)			
	336.4MCM		336.4, 19W 5,940 lbs. (100%) 336.4, 37W 6,420 lbs. (100%)		
LS-0139	300MCM	300, 26/7 6,325 lbs. (50%) 300, 30/7 7,715 lbs. (50%)			
	336.4MCM	336.4, 18/1 6,469 lbs. (75%) 336.4, 36/1 5,732 lbs. (75%)			
	350MCM		350, 19W 6,180 lbs. (100%) 350, 37W 6,680 lbs. (100%)		

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Refer to General Recommendations at the beginning of this section for an explanation of "Rated Holding Strength"
- (2) For sizes or strandings not shown, consult PLP.
- (3) Refer to the Splice: ACSR F. T. Section for an alternate product with higher rated holding strength on ACSR-type conductors.
- (4) AWAC and Copperweld are registered trademarks of the Copperweld Co.



Conductor Splices: Aluminum

**For use on:
ACSR, All-Aluminum
Aluminum Alloy**



Catalog Number	Diameter Range (Inches)		Nominal Conductor Size	Units per carton	Wt./Lbs. per carton	Length (Inches)	Rod Diameter (Inches)	No. of Subsets	Color Code
	Min.	Max.							
LS-0140	.701	.729	336.4, 26/7 336.4, 19W Alum. Alloy 397.5, 19W-37W All-Alum. 400, 19W-37W All-Alum.	15	62	77	.250	3	Green
LS-0141	.730	.760	336.4, 30/7 397.5, 18/1	15	64	79	.250	3	Black
LS-0142	.761	.792	397.5, 26/7 397.5, 19W Alum. Alloy 450, 19W-37W All-Alum.	15	74	83	.250	3	Purple
LS-0143	.793	.825	477, 18/1 - 36/1 477, 19W-37W All-Alum. 500, 19W-37W All-Alum.	3	18	84	.250	3	Red
LS-0145	.851	.886	477, 26/7 556.5, 18/1 - 36/1 556.5, 19W-37W All-Alum.	3	23	99	.250	4	Orange

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Rated Holding Strengths are listed on the next page.
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- (3) For an example of applied overall diameter see "O.D. CALCULATIONS" at the beginning of this section.

Conductor Splices: Aluminum

RATED HOLDING STRENGTHS				
Holding strengths of the applied splices are shown in pounds. Percentage of conductor RBS shown in parentheses.				
Catalog Number	Nominal Conductor Size	ACSR	All-Aluminum	Aluminum Alloy
LS-0140	363.4	336.4, 26/7 7,025 lbs. (50%)		336.4, 19W 12,830 lbs. (100%)
	397.5		397.5, 19W 6,880 lbs. (100%) 397.5, 37W 7,305 lbs. (100%)	
	400		400, 19W 6,928 lbs. (100%) 400, 37W 7,350 lbs. (100%)	
LS-0141	336.4	336.4, 30/7 8,520 lbs. (50%)		
	397.5	397.5, 18/1 7,530 lbs. (75%) 397.5, 36/1 6,555 lbs. (75%)		
LS-0142	397.5	397.5, 26/7 8,095 lbs. (50%)		397.5, 19W 13,617 lbs. (90%)
	450		450, 19W 7,630 lbs. (100%) 450, 37W 8,110 lbs. (100%)	
LS-0143	477	477, 18/1 8,903 lbs. (75%) 477, 36/1 7,740 lbs. (75%)	477, 19W 8,090 lbs. (100%) 477, 37W 8,600 lbs. (100%)	
	500		500, 19W 8,480 lbs. (100%) 500, 37W 9,100 lbs. (100%)	
	477			477, 19W 16,371 lbs. (90%)
LS-0145	477	477, 26/7 9,715 lbs. (50%)		
	550		550, 37W 9,720 lbs. (100%) 550, 61W 9,440 lbs. (90%)	
	556.5	556.5, 18/1 10,388 lbs. (75%) 556.5, 36/1 8,850 lbs. (75%)	556.5, 19W 9,440 lbs. (100%) 556.5, 37W 9,830 lbs. (100%)	

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Refer to General Recommendations at the beginning of this section for explanation of "Rated Holding Strength"
- (2) For sizes or strandings not shown, consult PLP.
- (3) Refer to the Splice: ACSR F. T. Section for an alternate product with higher rated holding strength on ACSR-type conductors.
- (4) AWAC and Copperweld are registered trademarks of the Copperweld Co.



Conductor Splices: Aluminum

**For use on:
ACSR, All-Aluminum
Aluminum Alloy**



Catalog Number	Diameter Range (Inches)		Nominal Conductor Size	Units per carton	Wt./ Lbs. per carton	Length (Inches)	Rod Diameter (Inches)	No. of Subsets	Color Code
	Min.	Min.							
LS-0146	.887	.929	605, 36/1 636, 37W-61W All-Alum.	3	31	105	.310	3	Orange
LS-0147	.930	.968	636, 18/1 - 36/1 666.6 - 36/1	3	36	108	.310	4	Brown
LS-0148	.969	1.008	636, 54/7 - 26/7 666.6, 54/7 715.5, 36/1	3	37	111	.310	4	Yellow
LS-0149	1.009	1.050	795, 36/1 795, 37W-61W All-Alum.	3	39	121	.310	4	Green

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Rated Holding Strengths are listed on the next page.
- (2) Nominal Conductor size indicates one of various conductors within each range. Refer to the next page for additional conductor sizes interchangeable with the same conductor splice. Consult PLP for sizes not shown.
- (3) For an example of applied overall diameter see "O.D. CALCULATIONS" at the beginning of this section.

Conductor Splices: Aluminum

RATED HOLDING STRENGTHS				
Holding strengths of the applied splices are shown in pounds. Percentage of conductor RBS shown in parentheses.				
Catalog Number	Nominal Conductor Size	ACSR	All-Aluminum	Aluminum Alloy
LS-0146	500	500, 30/7 12,225 lbs. (50%)		
	556.5	556.5, 26/7 11,200 lbs. (50%)		556.5, 19W 19,080 lbs. (90%)
	605	605, 36/1 9,600 lbs. (75%)		
	636		636, 37W 11,240 lbs. (100%) 636, 61W 10,520 lbs. (100%)	
LS-0147	605	605, 30/7 12,050 lbs. (50%) 605, 54/7 11,250 lbs. (50%)		
	556.5	556.5, 30/7 13,600 lbs. (50%)		
	636	636, 18/1 11,873 lbs. (75%) 636, 36/1 10,088 lbs. (75%)		
	666	666.6, 36/1 0,575 lbs. (75%)		
	700		700, 37W 12,370 lbs. (100%) 700, 61W 11,570 lbs. (100%)	
LS-0148	636	636, 26/7 12,500 lbs. (50%) 636, 54/7 11,180 lbs. (50%)		636, 37W 21,690 lbs. (90%)
	715	715.5, 36/1 11,175 lbs. (75%)	715.5, 37W 12,640 lbs. (100%) 715.5, 61W 11,835 lbs. (100%)	
	750		750, 37W 2,990 lbs. (100%) 750, 61W 12,160 lbs. (100%)	
LS-0149	795	795, 36/1 12,405 lbs. (75%)	795, 37W 13,770 lbs. (100%) 795, 61W 12,900 lbs. (100%)	
	800		800, 37W 13,850 lbs. (100%) 800, 61W 12,970 lbs. (100%)	

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Refer to General Recommendations at the beginning of this section for explanation of "Rated Holding Strength"
- (2) For sizes or strandings not shown, consult PLP.



Conductor Splices: Aluminum

**For use on:
ACSR, All-Aluminum
Aluminum Alloy**



Catalog Number	Diameter Range (Inches)		Nominal Conductor Size	Units per carton	Wt./ Lbs. per carton	Length (Inches)	Rod Diameter (Inches)	No. of Subsets	Color Code
	Min.	Max.							
LS-0150	1.051	1.091	874.5, 36/1 874.5, 37W-61W All-Alum.	3	45	127	.310	4	Black
LS-0151	1.092	1.136	795, 54/7 954, 37W-61W All-Alum.	3	59	137	.365	4	Purple
LS-0152	1.137	1.183	954, 36/1-45/7 1,033.5, 37W-61W All-Alum.	3	62	141	.365	4	Red
LS-0153	1.184	1.232	1,033.5, 36/1-45/7 1,113, 61W All-Alum.	3	63	143	.365	4	Blue
LS-0155	1.300	1.353	1,272, 45/7 1,272, 61W All-Alum.	3	101	165	.436	4	Yellow

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Rated Holding Strengths are listed on the next page.
- (2) Nominal Conductor size indicates one of various conductors within each range. Refer to the next page for additional conductor sizes interchangeable with the same conductor splice. Consult PLP for sizes not shown.
- (3) For an example of applied overall diameter, see "O.D. CALCULATIONS" at the beginning of this section.

Conductor Splices: Aluminum

RATED HOLDING STRENGTHS				
Holding strengths of the applied splices are shown in pounds. Percentage of conductor RBS shown in parentheses.				
Catalog Number	Nominal Conductor Size	ACSR	All-Aluminum	Aluminum Alloy
LS-0150	715.5	715.5, 26/7 14,050 lbs. (50%)		
	795	795, 45/7 11,450 lbs. (50%)		
	874.5	874.5, 36/1 13,425 lbs. (75%)	874.5, 37W 14,830 lbs. (100%) 874.5, 61W 14,200 lbs. (90%)	
LS-0151	795	795, 54/7 14,250 lbs. (50%) 795, 26/7 15,600 lbs. (50%)		795, 37W 27,135 lbs. (90%)
	900	900, 45/7 12,700 lbs. (50%)	900, 37W 15,270 lbs. (100%) 900, 61W 14,310 lbs. (90%)	
	954		954, 37W 16,180 lbs. (100%) 954, 61W 15,175 lbs. (90%)	
LS-0152	874.5	874.5, 54/7 15,700 lbs. (50%)		
	900	900, 54/7 16,5150 lbs. (50%)		
	954	954, 36/1 14,640 lbs. (75%) 954, 45/7 13,450 lbs. (50%)		
	1,000		1,000, 37W 16,960 lbs. (100%) 1,000, 61W 15,900 lbs. (90%)	
	1,033.5		1,033.5, 37W 17,530 lbs. (100%) 1,033.5, 61W 16,430 lbs. (90%)	
LS-0153	954	954, 54/7 17,100 lbs. (50%)		954, 37W 32,780 lbs. (90%)
	1,033.5	1,033.5, 36/1 15,825 lbs. (75%) 1,033.5, 45/7 14,450 lbs. (50%)		
	1,113		1,113, 61W 17,690 lbs. (90%)	
LS-0155	1,272	1,272, 45/7 17,700 lbs. (50%)	1,272, 61W 19,800 lbs. (90%)	

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Refer to General Recommendations at the beginning of this section for explanation of "Rated Holding Strength".
- (2) For sizes or strandings not shown, consult PLP.



Conductor Splices

For use on:
AWAC® Conductor



Catalog Number	Conductor Size		Units per carton	Wt/ Lbs per carton	Length (Inches)	Rod Diameter (Inches)	No. of Subsets	Color Code
	AWAC	Outside Diameter (Inches)						
LS-0185	#4 AWAC 4/3	.281	50	21	33	.121	3	Green
LS-0186	#3 AWAC 4/3	.316	50	27	36	.136	3	Purple
LS-0187	#2 AWAC 5/2	.330	50	24	36	.121	3	Green
LS-0188	#2 AWAC 4/3	.355	50	35	40	.146	3	Purple
LS-0189	#1 AWAC 4/3	.398	50	50	45	.167	3	Red
LS-0190	1/0 AWAC 5/2	.416	50	40	44	.136	3	Orange
LS-0191	1/0 AWAC 4/3	.447	50	61	50	.167	3	Brown
LS-0192	2/0 AWAC 5/2	.467	50	49	47	.146	3	Orange
LS-0193	2/0 AWAC 4/3	.502	50	41	55	.182	3	Black
LS-0194	3/0 AWAC 4/3	.564	50	55	59	.204	3	Yellow

ALUMINUM-CLAD STEEL								
LS-5112	#4 AWAC 3/4	.307	50	34	30	.102	3	Purple
LS-5113	#4 AWAC 2/5	.340	50	46	33	.114	3	Blue
	#3 AWAC 3/4	.344						
LS-5114	#3 AWAC 2/5	.382	50	67	38	.128	3	Brown
	#2 AWAC 3/4	.386						
LS-5115	#2 AWAC 2/5	.429	25	55	50	.144	3	Green
	#1 AWAC 3/4	.434						
LS-5116	#1 AWAC 2/5	.482	25	75	55	.162	3	Red
	1/0 AWAC 3/4	.487						
LS-5117	1/0 AWAC 2/5	.541	10	48	67	.183	3	Green
	2/0 AWAC 3/4	.547						

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Conductor Splices for AWAC stranded 6/1, selected sizes stranded 5/2 and 5/4, not appearing above, can be found earlier in this section.
- (2) Rated Holding Strengths are listed on the next page.
- (3) Consult PLP for sizes, strandings, or lay direction not shown.
- (4) For an example of applied overall diameter see O.D. CALCULATIONS at the beginning of this section.
- (5) AWAC and Copperweld are registered trademarks of the Copperweld Co.

Conductor Splices

RATED HOLDING STRENGTHS								
Holding strengths of the applied splices are shown in pounds. Percentage of conductor RBS shown in parentheses.								
Catalog Number	AWAC® SIZES							
	#4	#3	#2	#1	1/0	2/0	3/0	4/0
LS-0185	#4, 4/3 4,190 lbs. (100%)							
LS-5112	#4, 3/4 6,130 lbs. (100%)							
LS-5113	#4, 2/5 8,960 lbs. (100%)							
LS-0186		#3, 4/3 5,260 lbs. (100%)						
LS-5113		#3, 3/4 7,700 lbs. (100%)						
LS-5114		#3, 2/5 11,300 lbs. (100%)						
LS-0119			#2, 6/1 1,590 lbs. (100%)					
LS-0187			#2, 5/2 4,370 lbs. (100%)					
LS-0188			#2, 4/3 6,600 lbs. (100%)					
LS-5114			#2, 3/4 9,690 lbs. (100%)					
LS-5115			#2, 2/5 13,500 lbs. (100%)					
LS-0189				#1, 4/3 8,100 lbs. (100%)				
LS-5115				#1, 3/4 11,200 lbs. (100%)				
LS-5116				#1, 2/5 16,500 lbs. (100%)				
LS-0190					1/0, 5/2 6,580 lbs. (100%)			
LS-0191					1/0, 4/3 9,680 lbs. (100%)			
LS-5116					1/0, 3/4 13,800 lbs. (100%)			
LS-5117					1/0, 2/5 19,500 lbs. (100%)			
LS-0192						2/0, 5/2 8,030 lbs. (100%)		
LS-0193						2/0, 4/3 11,900 lbs. (100%)		
LS-5117						2/0, 3/4 16,400 lbs. (100%)		
LS-0194							3/0, 4/3 14,200 lbs. (100%)	

Right-hand lay standard

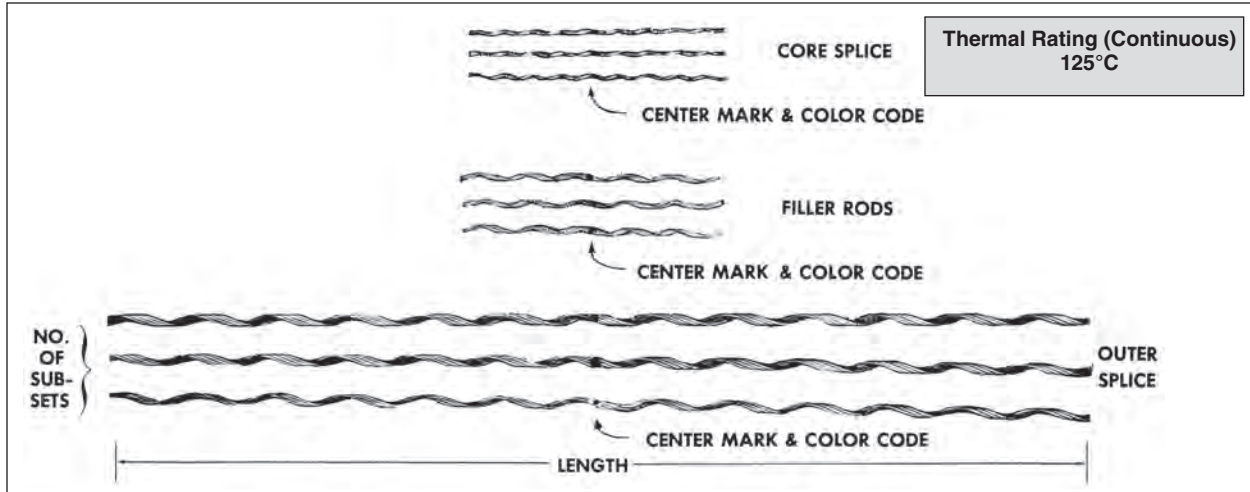
EXPLANATORY NOTES:

- (1) Conductor Splices for AWAC stranded 6/1 or selected sizes stranded 5/2, not appearing above, can be found earlier in this section.
- (2) Refer to General Recommendations at the beginning of this section for explanation of "Rated Holding Strength"
- (3) Consult PLP for sizes, stranding or lay direction not shown.
- (4) AWAC is a registered trademark of the Copperweld Co.



ACSR Full Tension Splice

NOMENCLATURE



Sub-Sets: Individual rods assembled into groups of two, three, or four.

Core Splice: Galvanized steel, sub-setted and gritted.

Filler Rods: Aluminum alloy, sub-setted, or single rods, not gritted. Filler Rods are not required for selected sizes corresponding to tabular information on catalog pages.

Outer Splice: Aluminum alloy, sub-setted and gritted.

Center Mark: Establishes recommended alignment of rods during application.

Color Code and Length: Assist in identification of conductor size, corresponding to tabular information appearing on catalog pages.

Identification Tape: Shows catalog number, nominal sizes.

GENERAL RECOMMENDATIONS

SPLICE: ACSR F.T. is designed as a three component assembly generally for Sub-EHV applications. Full Tension Splices are available for EHV applications. Contact PLP for details.



The Core Splice is applied after removal of the aluminum strands down to the steel core.



Filler rods, when required, are applied over the Core Splice to re-establish the original outside diameter of the conductor.



The Outer Splice is identical in design to the Conductor Splice (earlier in this section) except for the overall length.

JOINING: This splice will hold the full rated breaking strength of, and provide better conductivity than, an equal length of unspliced ACSR conductor.

RESTORATIVE-REPAIR: *Splice: ACSR F.T.* will restore original conductivity and full rated breaking strength to ACSR conductor. This splice is recommended when damage to the core itself is suspected.

Other PREFORMED™ products with restorative-repair capabilities are *Armor Rods, Line Guards, and ARMOR-GRIP® Suspension: for Line Repair.*

RATED HOLDING STRENGTH: Published for individual sizes on the page following the specification page. In arriving at "Rated Hold Strength," actual results of tests on unweathered conductor are studied, and consideration is given to dimensional tolerances for the sizes encompassed.

APPLICATION-INSPECTION: All conductors, new or weathered, must be thoroughly scratch-brushed until bright and clean. Immediately thereafter, an industry accepted inhibitor (compatible with the product) should be applied before installing the product.

ACSR Full Tension Splice

GENERAL RECOMMENDATIONS (cont.)

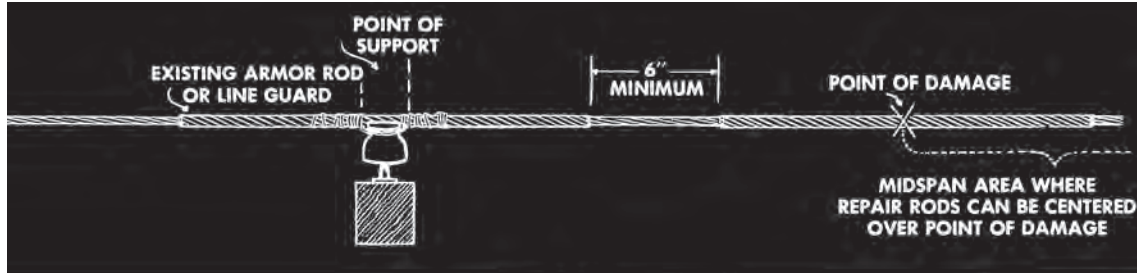


FIG. 1

When centered over the point of damage, the ends of the *Splice: ACSR F.T.* should not be positioned closer than 6 inches to existing *Armor Rods* or *Line Guards*. The restorative-repair function of this splice should be limited to damage located out in the "Midspan Area" or at the "Point of Support" (see Fig. 1).

TAPPING: Tapping over a *Splice: ACSR F.T.* is permissible. Whenever 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.

DESIGN MODIFICATIONS

Armor Splice

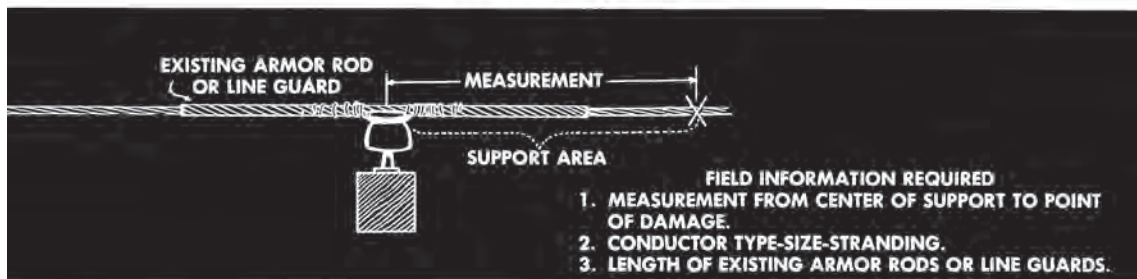


FIG. 2

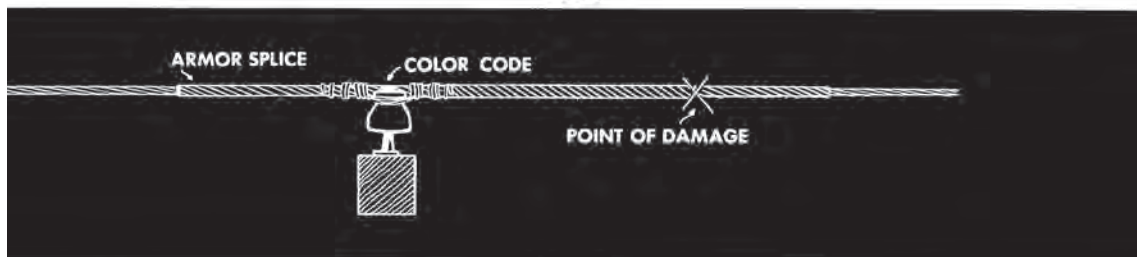


FIG. 3

The *Armor Splice* combines the features of both *Armor Rods* and *Conductor Splices*, which are described in their respective catalog sections. The *Armor Splice* should be considered when damage occurs in the "support area," or where installation would locate the ends of repair rods within 6 inches of existing rods.

Upon receipt of the field information specified in Figure 2, Preformed Line Products will furnish the correct Catalog Number.

The *Armor Splice* is custom designed to assure that when the color code mark is centered at the support point, a continuous length will extend beyond the area of damage. (See Figure 3)

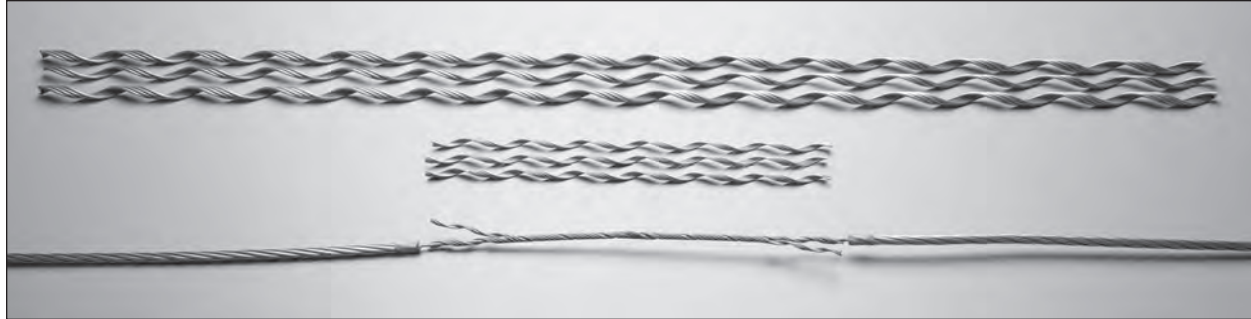


ACSR Full Tension Splice

O.D. CALCULATIONS

Applied overall diameter computed as follows:
 Conductor O.D. can be found in the Conductor Chart,
 General Information Section.

Rod Diam.	.121" x 2 = .242"
Conductor Diam.	+ .398"
Total Applied O.D.	.640"



For use on: ACSR

Catalog Number	ACSR Conductor Size Min.	Units per carton	Wt./Lbs. per carton	Outer Splice		Rod Diameter (Inches)	Color Codes		
				Length (Inches)	No. of Subsets		Core	Filler	Outer
FTS-5100	#4, 6/1	100	34	35	3	.094	Black	None	Orange
FTS-5101	#4, 7/1	100	34	35	3	.094	Black	None	Orange
FTS-5102	#2, 6/1	100	58	44	3	.102	Black	None	Red
FTS-5103	#2, 7/1	100	66	45	3	.102	Black	None	Red
FTS-5104	1/0, 6/1	50	80	52	3	.121	Black	Black	Yellow
FTS-5105	2/0, 6/1	50	65	55	3	.136	Black	Black	Blue
FTS-5108	3/0, 6/1	25	38	59	3	.146	Black	Black	Orange
FTS-5110	4/0, 6/1	25	56	67	3	.167	Black	Black	Red
FTS-5106	101.8, 12/7	25	40	65	3	.136	Black	None	Blue
FTS-5107	110.8, 12/7	25	50	69	3	.136	Black	None	Green
FTS-5109	134.6, 12/7	10	68	75	3	.167	Black	None	Purple
FTS-5111	266.8, 26/7	10	40	91	3	.182	Black	Black	Yellow
FTS-5112	336.4, 18/1	10	40	87	3	.204	Black	Black	Blue
FTS-5113	336.4, 26/7	10	65	103	3	.250	Black	Black	Green
FTS-5114	336.4, 30/7	10	70	108	3	.250	Black	Black	Orange
FTS-5115	397.5, 26/7	5	40	110	3	.250	Black	Black	Purple
FTS-5116	477, 24/7	5	40	113	3	.250	Black	Black	Blue
FTS-5117	477, 26/7	5	48	120	4	.250	Black	Black	Blue
FTS-5118	556.5, 26/7	3	44	129	3	.310	Black	Black	Green
FTS-5119	636, 24/7	3	48	132	4	.310	Black	Black	Yellow
FTS-5120	636, 26/7	3	50	134	4	.310	Black	Black	Yellow
FTS-5121	795, 45/7	3	52	153	4	.310	Black	Black	Blue
FTS-5122	795, 26/7	3	78	158	4	.365	Black	Black	Orange
FTS-5123	1,272, 45/7	3	133	203	4	.463	Black	Black	Yellow

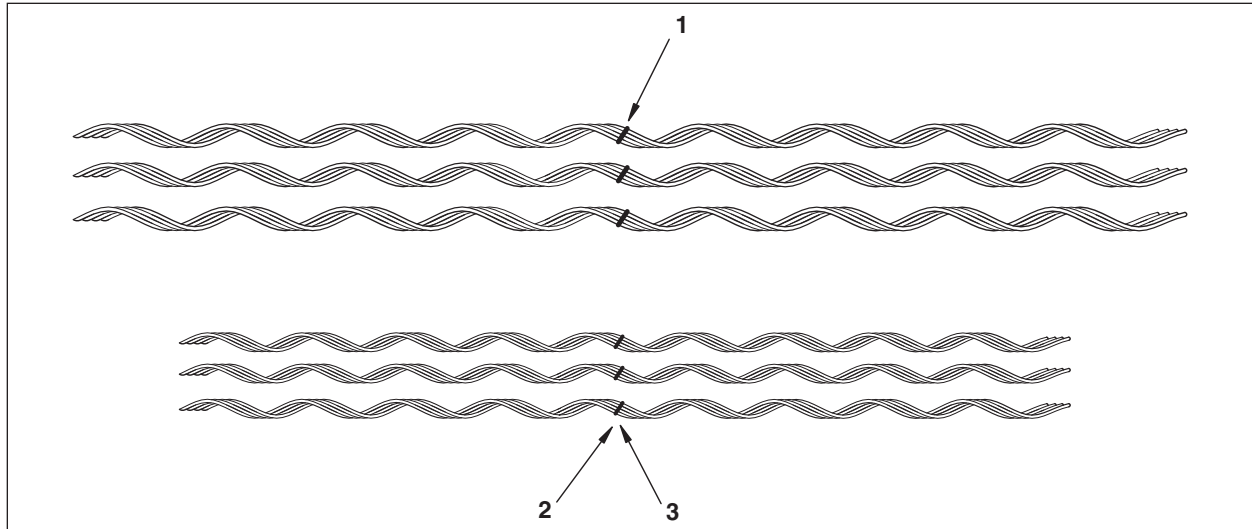
Right-hand lay standard

EXPLANATORY NOTES:

- (1) ACSR Conductor Sizes should be used only with Catalog Numbers shown. Consult PLP for sizes or strandings not shown.
- (2) Rated Holding Strengths are 100% of the published RBS for the specified conductor.

THERMOLIGN® Splice

NOMENCLATURE



1. Inner Rods, Multiple Subsets (Aluminum Alloy)
2. Outer Rods, Multiple Subsets (Aluminum Alloy)
3. Center Mark & Color Code

GENERAL RECOMMENDATIONS

The THERMOLIGN Splice is intended for use on ACSS/AW and ACCR (not for use on conductors with trapezoidal outer strands). The design allows for continuous conductor operating temperatures up to 250°C.

GENERAL SPECIFICATIONS

Holding strength: 95% or more of the conductor rated breaking strength (RBS).

FEATURES AND BENEFITS

- No compression press and dies required – installation time is minimal
- Simple two layer design – no need to separately expose and splice core

Thermal Rating (Continuous)
250°C



THERMOLIGN® Splice

**For use on:
ACSS/AW, ACCR (Round Wire)
Not intended for use on conductor with
trapezoidal outer strands.**



Catalog Number	Diameter Range		Nominal Cond. (kcmil)	Length Inches		Color Code
	Min.	Max.		Inner Rods	Outer Rods	
TLSP-0100	0.720" (18.3mm)	0.720" (18.3mm)	336.4	118	108	Blue
TLSP-0101	0.741" (18.8mm)	0.752" (19.1mm)	336.4, 397.5	119	109	Brown
TLSP-0102	0.772" (19.6mm)	0.783" (19.3mm)	397.5	121	111	Pink
TLSP-0103	0.806" (20.5mm)	0.823" (20.9mm)	397.5, 477	124	114	Green
TLSP-0104	0.846" (21.5mm)	0.860" (21.8mm)	477	131	121	Red
TLSP-0105	0.883" (22.4mm)	0.900" (22.9mm)	477	133	123	Purple
TLSP-0106	0.901" (22.9mm)	0.914" (23.2mm)	556.5	135	125	Yellow
TLSP-0107	0.927" (23.5mm)	0.930" (23.6mm)	556.5	136	126	Orange
TLSP-0108	0.953" (24.2mm)	0.962" (24.4mm)	556.5, 605	146	136	Black
TLSP-0109	0.963" (24.5mm)	0.977" (24.8mm)	605, 636	147	137	Blue
TLSP-0110	0.990" (25.1mm)	0.994" (25.2mm)	605, 636	149	139	Brown
TLSP-0111	1.000" (25.4mm)	1.019" (25.9mm)	636, 666	151	141	Pink
TLSP-0112	1.036" (26.3mm)	1.063" (27.0mm)	715.5, 795	152	142	Green
TLSP-0113	1.081" (27.4mm)	1.092" (27.7mm)	715.5, 795	154	144	Red
TLSP-0114	1.108" (28.1mm)	1.140" (29.0mm)	795	159	149	Black
TLSP-0115	1.162" (29.5mm)	1.175" (29.8mm)	954	162	152	Purple
TLSP-0116	1.196" (30.4mm)	1.212" (30.8mm)	954, 1033.5	163	153	Yellow
TLSP-0117	1.240" (31.5mm)	1.259" (32.0mm)	1033.5, 1113	165	155	Orange
TLSP-0118	1.290" (32.8mm)	1.302" (33.1mm)	1113, 1192.5	171	161	Black
TLSP-0119	1.338" (34.0mm)	1.345" (34.2mm)	1192.5, 1272	174	164	Blue
TLSP-0120	1.380" (35.1mm)	1.386" (35.2mm)	1272, 1351.5	177	167	Red
TLSP-0121	1.420" (36.1mm)	1.427" (36.2mm)	1351.5, 1431	181	171	Purple
TLSP-0122	1.465" (37.2mm)	1.466" (37.2mm)	1431	183	173	Yellow
TLSP-0123	1.492" (37.9mm)	1.505" (38.2mm)	1510.5, 1590	185	175	Orange
TLSP-0124	1.540" (39.1mm)	1.544" (39.2mm)	1590	188	178	Green