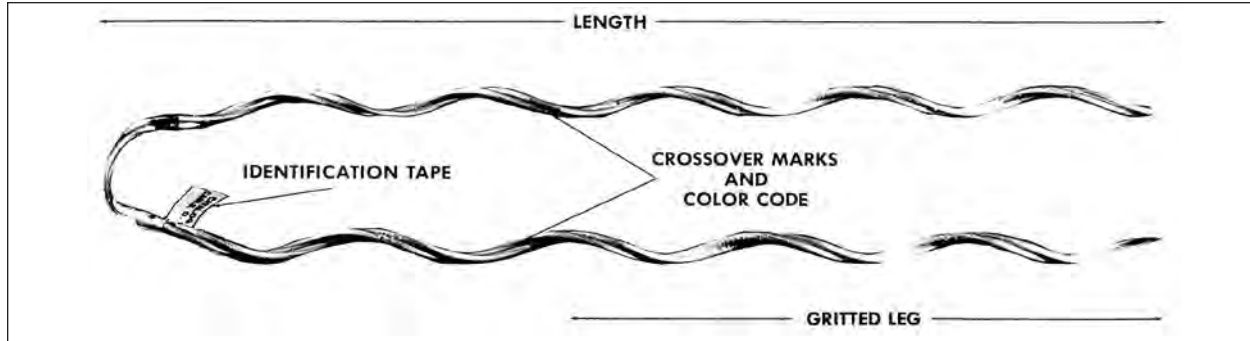




Service-Grip Dead-end

NOMENCLATURE



Crossover Marks: Indicate starting point for 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

Service-Grip Dead-end, manufactured of aluminum-covered steel, is designed for bare neutral messengers of self-supporting cable used in making service drops. The Dead-end is recommended for service drops by reason of minimum length, economy, and neatness of appearance. Mechanical strength meets the requirements for NESC Grade “N”, Rule 263-E, Supply Services, Spans not exceeding 150 feet.

For service drops exceeding 150 feet, Grade “C” Construction, the *Distribution Grip Dead-end* is recommended.

Dead-end: Coated is recommended for direct application over plastic jacketed open-wire service drops.

RATED HOLDING STRENGTH. Published for individual sizes on the page following the initial specification page. In arriving at “Rated Holding Strengths,” actual results of tests on unweathered conductor are studied, and consideration is given to dimensional tolerances for the sizes encompassed. These minimum values are conservative when compared to “typical” values, or, actual tests on conductor which has been in service.

TAPPING. Tapping over the applied legs of *Service-Grip Dead-end* is **not** recommended. Taps can be made on the conductor, ahead of the Dead-end, or, the conductor can continue through the crossover point of the grip with connectors applied to the continued tail.

VIBRATION DAMPERS. No consideration of dampening devices with *Service-Grip Dead-ends* is made since *Distribution-Grip Dead-ends* are recommended when vibration is suspected.

APPLICATION-INSPECTION. Dead-ends should not be re-used after original installation.

Lay direction of both the Dead-end and the conductor should be the same. Lay direction of most neutral-messengers is right hand lay.

The loops of *Service-Grip Dead-ends* should not be criss-crossed, when two or more are applied to the same spool.

(Continued on next page)

SAFETY CONSIDERATIONS

1. This product is intended for a single (one-time) use and for the specified application, although it may be reapplied twice for retensioning within 90 days of initial installation. **CAUTION: DO NOT MODIFY OR REUSE THIS PRODUCT AFTER 90 DAYS 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 *Service-Grip Dead-end* before application.
5. *Service-Grip Dead-ends* are precision devices. To insure proper performance, they should be stored in cartons under cover and handled carefully.

Service-Grip Dead-end

GENERAL RECOMMENDATIONS CONTD.

ACCEPTABLE FITTINGS		
SPOOL INSULATORS	WIRE HOLDERS	TRIPLEX SEPARATOR
<p>RACK</p> <p>CLEVIS</p> <p>SWING CLEVIS</p> <p>Neck Diam.</p> <p>Diameter</p>	<p>REINFORCED</p> <p>ALL-PORCELAIN</p> <p>MAST</p> <p>HOLE 5/8" OR LARGER</p> <p>Diameter</p>	<p>Diameter</p>
<p>DIAMETERS 2 1/4" to 4"</p>	<p>DIAMETERS 1 1/4" to 3"</p>	<p>DIAMETERS 1 1/2" to 3"</p>
<p>NECK DIAMETERS 1 1/8" Minimum to 3" Maximum</p>	<p>NECK DIAMETERS 1 1/8" Minimum to 3" Maximum</p>	<p>NECK DIAMETERS 1 1/8" Minimum to 3" Maximum</p>

Loops of the **Service-Grip Dead-end** are designed for use with a variety of porcelain fittings. These fittings are recommended because they have smoothly contoured diameters between 1-1/8" minimum and 3" maximum. Refer to catalog pages for maximum neck diameters for specific Service-Grip Dead-ends.

Consult PLP for fittings not appearing in this table.



Service-Grip Dead-end

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



Catalog Number	Diameter Range (In.)		Nominal Conductor Sizes				Units	Wt./Lbs.	Length (In.)	Color Code	Max. Neck Dia. (In.)
	Min.	Max.	ACSR	All-Alum.	Alum. Alloy	Comp.	Per Carton				
SG-4500	.169	.198	#6, 6/1	#6, 7W	#6, 7W	#6, 6/1 #6, 7W	300	24	11	Blue	2-3/8
SG-4501	.199	.224	#5, 6/1	#4, Solid	#5, 7W	#4, 7W	300	27	12	White	2-3/8
SG-4502	.225	.257	#4, 6/1 #4, 7/1	#4, 7W	#4, 7W	#4, 6/1 #4, 7/1	300	29	13	Orange	2-3/8
SG-4503	.258	.289	#3, 6/1	#3, 7W #2, Solid	#3, 7W	#3, 6/1 #2, 7W	200	27	14	Black	2-5/8
SG-4504	.290	.325	#2, 6/1 #2, 7/1	#2, 7W	#2, 7W	#2, 6/1 #1, 7W	200	28	15	Red	2-5/8
SG-4505	.326	.360	#1, 6/1	#1, 7W	#1, 7W	#1, 6/1 1/0, 7W	200	31	17	Green	2-5/8
SG-4506	.361	.400	1/0, 6/1	1/0, 7W	1/0, 7W	1/0, 6/1 2/0, 7W	100	28	19	Yellow	2-7/8
SG-4507	.401	.450	2/0, 6/1	2/0, 7W	2/0, 7W	2/0, 6/1 3/0, 7W	100	31	21	Blue	2-7/8
SG-4508	.451	.510	3/0, 6/1	3/0, 7W	3/0, 7W	4/0, 7W	100	33	23	Orange	2-7/8
SG-4509	.511	.580	4/0, 6/1 4/0, 18/1	4/0, 7W	4/0, 7W	4/0, 6/1	100	37	26	Red	3

Right-hand lay standard

EXPLANATORY NOTES:

- (1) Nominal conductor size indicates a few of the various conductors within each range. Refer to the following page for additional conductor sizes interchangeable with the same Dead-end. Consult PLP for sizes or strandings not shown.
- (2) Refer earlier in this section for acceptable fittings.
- (3) Rated Holding Strengths are listed on the following page.

Service-Grip Dead-end

RATED HOLDING STRENGTHS						
Holding strengths of the applied Dead-ends are shown in pounds. Percentage of conductor RBS shown in parentheses.						
Catalog Number	Size	ACSR	All-Alum.	Alum. Alloy	Compacted	
					ACSR	All-Alum.
SG-4500	#6	#6, 6/1 585 lbs. (50%)	#6, 7W 488 lbs. (88%)	#6, 7W 840 lbs. (80%)	#6, 6/1 585 lbs. (50%)	#6, 7W 500 lbs. (90%)
	#5		#5 Solid 549 lbs. (88%)			
SG-4501	#5	#5, 6/1 730 lbs. (50%)		#5, 7W 1,080 lbs. (80%)		
	#4		#4 Solid 772 lbs. (88%)			#4, 7W 788 lbs. (90%)
SG-4502	#4	#4, 6/1 915 lbs. (50%)	#4, 7W 770 lbs. (88%)	#4, 7W 1,336 lbs. (80%)	#4, 6/1 915 lbs. (50%)	
		#4, 7/1 1,144 lbs. (50%)			#4, 7/1 1,145 lbs. (50%)	
	#3		#3, Solid 854 lbs. (88%)			
SG-4503	#3	#3, 6/1 1,125 lbs. (50%)	#3, 7W 900 lbs. (88%)	#3, 7W 1,720 lbs. (80%)	#3, 6/1 1,125 lbs. (50%)	
	#2		#2 Solid 1,078 lbs. (88%)			
	#1		#1 Solid 1,331 lbs. (88%)			#2, 7W 1,202 lbs. (90%)
SG-4504	#2	#2, 6/1 1,395 lbs. (50%)	#2, 7W 1,175 lbs. (88%)	#2, 7W 2,124 lbs. (80%)	#2, 6/1 1,395 lbs. (50%)	
					#2, 7/1 1,763 lbs. (50%)	
	#1					#1, 7W 1,383 lbs. (90%)
SG-4505	#1	#1, 6/1 1,740 lbs. (50%)	#1, 7W 1,430 lbs. (88%)	#1, 7W 2,736 lbs. (80%)	#1, 6/1 1,740 lbs. (50%)	
	1/0					1/0, 7W 1,773 lbs. (90%) 1/0, 19W 1,881 lbs. (90%)
SG-4506	1/0	1/0, 6/1 2,140 lbs. (50%)	1/0, 7W 1,734 lbs. (88%)	1/0, 7W 3,384 lbs. (80%)	1/0, 6/1 2,140 lbs. (50%)	
		5/1 1,688 lbs. (50%)				
	2/0					2/0, 7W 2,232 lbs. (90%) 2/0, 19W 2,327 lbs. (90%)
SG-4507	2/0	2/0, 6/1 2,673 lbs. (50%)	2/0, 7W 2,182 lbs. (88%)	2/0, 7W 4,044 lbs. (80%)	2/0, 6/1 2,673 lbs. (50%)	
	3/0					3/0, 7W 2,705 lbs. (90%) 3/0, 19W 2,880 lbs. (90%)
SG-4508	3/0	3/0, 6/1 3,338 lbs. (50%)	3/0, 7W 2,644 lbs. (88%)	3/0, 7W 5,092 lbs. (80%)	3/0, 6/1 3,338 lbs. (50%)	
	4/0					4/0, 7W 3,411 lbs. (90%) 4/0, 19W 3,501 lbs. (90%)
SG-4509	4/0	4/0, 6/1 4,210 lbs. (50%)	4/0, 7W 3,335 lbs. (88%)	4/0, 7W 6,420 lbs. (80%)	4/0, 6/1 4,210 lbs. (50%)	
		4/0, 5/1 3,300 lbs. (50%)				
		4/0, 18/1 2,923 lbs. (50%)				

EXPLANATORY NOTES:

- (1) Refer to General Recommendations for explanation of "Related Holding Strength"
(2) Consult PLP for sizes or strandings not shown.