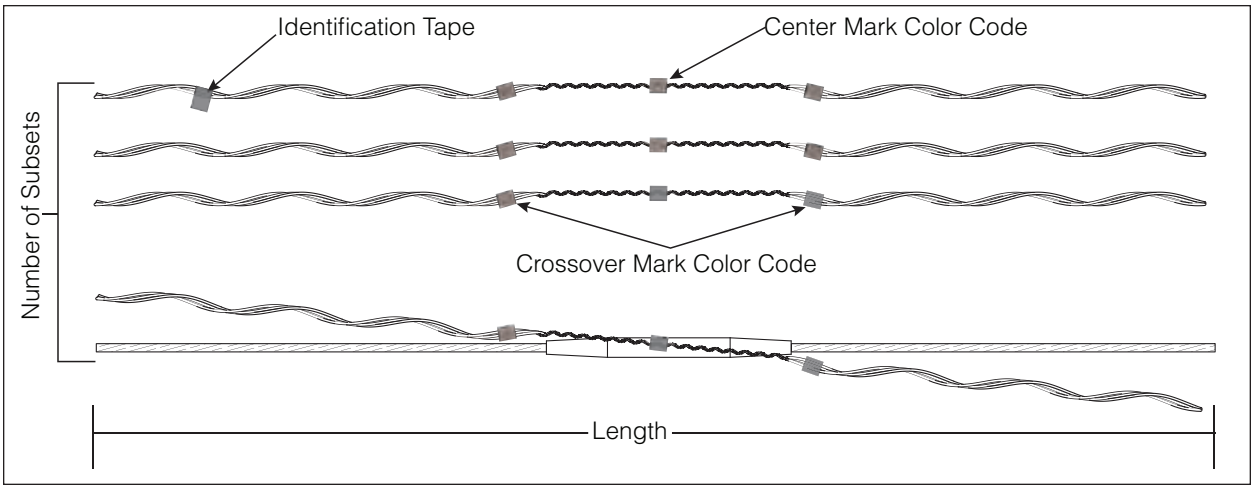
Splice/Dead-end Shunt

NOMENCLATURE



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

Center Mark:
Establishes proper alignment of subsets centered on affected splice.

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

Identification Tape:
Shows catalog number, nominal sizes.

Application/Crossover Mark:
Indicates location where subsets wrap/apply on the conductor on either side of the splice.

GENERAL RECOMMENDATIONS

The Splice Shunt is designed to restore electrical conductivity and a portion of the mechanical strength to compression splices. The Dead-end Shunt restores electrical conductivity between the conductor in the span and the jumper loop.

In addition to using a Shunt for repair of faulty compression fittings, it can be used to reinforce and reduce the temperature of existing compression fittings for increasing the capacity (uprating) of a line.

Thermal Rating (Continuous)
125°C ACSR, AAC, AAAC
250°C ACSS, ACCR

FEATURES AND BENEFITS

- Rods are sub-setted into groups for ease of application
- Rods are made of high strength, high conductivity, aluminum alloy
- Center section is “cabled” tightly to pass over a splice or around a dead-end/terminal assembly
- Conductive grit on inner surface of rods assure electrical contact with cleaned conductor surface.

APPLICATIONS

- ACSR (50% to 100% of RBS holding strength)
- AAC & AAAC (100% of RBS holding strength)
- ACSS, ACSS/TW, ACCR (50% to 100% of RBS holding strength)

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Splice/Dead-end Shunt

Catalog Number	Conductor Range (in)	Nominal Conductor Size	Wire Size	Rods per Set (subsets)	Length (in)	Splice Length (in)	Color Code	EHV
SDES-0001	0.701 - 0.729	397.5 19 str AAC	0.250	10(2-2-3-3)	108	20	Green	
SDES-0002	0.730 - 0.760	336.4 30/7 ACSR	0.250	10(2-2-2-2-2)	123	30	Black	
SDES-0003	0.761 - 0.792	397.5 kcmil 26/7 ACSR	0.250	11(3-4-4)	125	30	Purple	
SDES-0004	0.793 - 0.825	477 kcmil 18/1 ACSR	0.250	11(2-3-3-3)	122	30	Red	
SDES-0005	0.826 - 0.850	477 kcmil 24/7 ACSR	0.250	11(3-4-4)	138	30	Black	
SDES-0006	0.851 - 0.886	477 kcmil 26/7 ACSR	0.250	12(3-3-3-3)	138	32	Black	
SDES-0007	0.887 - 0.929	556.5 kcmil 26/7 ACSR	0.310	10(2-2-3-3)	145	32	Orange	
SDES-0008	0.918 - 0.968	605 kcmil 24/7 ACSR	0.310	11(2-2-2-2-3)	148	32	White	
SDES-0009	0.969 - 1.008	636 kcmil 26/7 ACSR	0.310	11(2-3-3-3)	151	34	Yellow	
SDES-0010	1.009 - 1.050	795 kcmil 36/1 ACSR	0.365	10(2-2-3-3)	168	34	Green	
SDES-0011	1.051 - 1.091	795 kcmil 45/7 ACSR	0.365	10(2-2-3-3)	187	34	Black	
SDES-0012	1.092 - 1.136	795 kcmil 26/7 ACSR	0.365	11(2-2-2-2-3)	183	40	Green	Y
SDES-0013	1.137 - 1.183	954 kcmil 45/7 ACSR	0.365	11(2-3-3-3)	187	40	Red	Y
SDES-0014	1.184 - 1.232	1033.5 kcmil 45/7 ACSR	0.436	10(2-2-3-3)	216	42	Blue	Y
SDES-0015	1.233 - 1.299	1033.5 kcmil 54/7 ACSR	0.436	10(2-2-2-2-2)	218	42	Green	Y
SDES-0016	1.300 - 1.353	1192 kcmil 45/7 ACSR	0.436	11(2-3-3-3)	220	45	Yellow	Y
SDES-0017	1.382 - 1.387	1272 kcmil 54/19 ACSR	0.436	11(2-3-3-3)	237	45	Brown	Y
SDES-0018	1.410 - 1.467	1600 AAAC	0.436	11(2-3-3-3)	219	45	Yellow	Y
SDES-0019	1.468 - 1.528		0.436	12(3-3-3-3)	228	45	White	Y
SDES-0020	1.504 - 1.545	1590 kcmil 45/7 ACSR	0.365	14(2-3-3-3-3)	226	45	White	Y
SDES-0021	1.592 - 1.657	1780 kcmil 84/19 ACSR	0.468	12(3-3-3-3)	261	45	Purple	Y
SDES-0022	1.740 - 1.810	2156 kcmil 84/19 ACSR	0.365	16(2-2-3-3-3-3)	250	45	Purple	Y
SDES-0023	1.811 - 1.870	2492 kcmil 54/37 ACAR	0.496	12(3-3-3-3)	288	45	Purple	Y

NOTES:

- Special Shunts can be designed and produced for longer splice lengths (contact PLP for details)
- For larger conductors special Dead-end Shunts can be produced with a shorter length for applications to the jumper loop (contact PLP for details)
- It is possible to create a Dead-end Shunt Assembly with an additional formed-wire dead-end applied over the shunt and connected to the dead end hardware to provide a portion of the mechanical strength, of the compression dead-end (contact PLP for details)

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