

Introducing Cold Applied Splices



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Cold Applied Splices





KEY FEATURES

One-step termination and environmental protection

No heating required for installation – safe for use on fueled aircraft

Reliable in a wide variety of environmental conditions

Achieve environmental performance while maintaining:

- Small profile
- Electrical performance

Easy installation and application flexibility

Prevents water ingress under permanent pressure/weight

DESCRIPTION

The cold applied splice product line is designed as a single component in-line splice to provide high environmental protection to seal the termination from moisture and provide electrical isolation. If moisture is present, it can lead to insulation failure and breakdown of the electrical connection.

In this product, sealing is achieved by replacing traditional methods, such as grommets, greases and tapes with a novel TE gel technology. The electrical isolation is provided by a polymer outer layer.

APPLICATIONS

Ideal for aerospace and defense application where performance and reliability is essential

- Designed to provide an immersion resistant in-line splice on 1:1 wires
- Wide range from 26 AWG to 12 AWG
- Nickel-plated, silver-plated, and tin-plated conductors
- Insulation rated for at least 135°C

Protects and seals on all conventional MIL spec and commercial wire insulation systems

STANDARDS & SPECS

- Meets or exceeds the following:
- SAE-AMS-DTL-23053/8 (Insulation sleeve)

- SAE AS81824/12

Under gualification for SAE AS81824 and AS81824/12

ORDERING INFORMATION

Minimum order quantity: 500 pieces for all sizes

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ENVIRONMENTAL	
Temperature range:	-65°C to 150°C
Dielectric strength:	2500 V Maximum
Insulation resistance:	5000 megohms minimum
Altitude immersion:	75,000 ft.
Fluid resistance:	MIL-L-7808, MIL-L-3699, MIL-H-5605 (Hydraulic), MIL-A-8243, MIL-C-59769, and MIL-T-5624 (JP-5)

ELECTRICAL

Current rating as defined by the size of crimp, gauge of wire and specification

MECHANICAL

Cold splice tensile strenth exceeds strength of spliced wire





Cross-linked gel technology:

- Versatile gel closure
- Non-flowing gel

MATERIALS

Insulation sleeve Metal crimp spli End caps:

Gel:

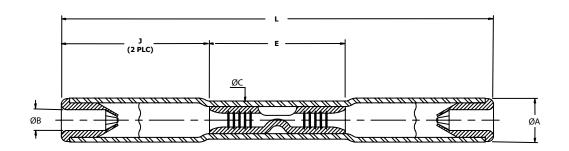
Cold Applied Cr Under qualificat

AD-1381 Tool

PART NUMBERS

Part Number	Wire Range	L ± 1.0 (±0.040)	øA[±]0.5 (±0.020)	øB[±]0.25 (±0.010)	øC[±]0.5 (±0.020)	E[±]0.25 (±0.010)	J[±]0.25 (±0.010)	End Cap Color Code (Both Ends)
D-436-36-COLD	26-24-22-20	36.8	4.2	2.0	3.7	12.1	12.7	Red
		(1.450)	(0.165)	(0.080)	(0.145)	(0.475)	(0.500)	
D-436-37-COLD	18-16	38.7	5.1	2.9	4.5	14.3	12.7	Blue
		(1.525)	(0.200)	(0.115)	(0.175)	(0.565)	(0.500)	Bido
D-436-38-COLD	14-12	38.7	5.9	3.8	5.2	14.3	12.7	Yellow
	17-12	(1.525)	(0.235)	(0.150)	(0.205)	(0.565)	(0.500)	Tenow

Dimensions are in millimeters (inches)



PHYSICAL OR OTHER PROPERTIES

- Proven gel sealing system

S	
/e:	Transparent polyvinylidene fluoride
lice:	Tin plated copper
	Thermoplastic, color coded
	Clear flame-retardant silicone based gel

APPLICATION TOOLING

rimp Tool:	AD-1381
tion per M22520/44-01	

AD-1381 or approved M22520/44-01 crimp tool must be used for proper installation of these devices