



# Devices

Interconnect Harnessing Components



## TERMINALS and SPLICES INTERCONNECTS

REPEATABLE AND CONSISTENT  
QUALITY, INSPECT-ABILITY,  
CONVENIENCE and SPEED

- SolderSleeve®
- SolderGrip®
- MiniSeal®
- DuraSeal®
- SolderShield®
- SolderTacts®

- Wire to Wire both solder and crimp
- Shielded terminators and splices
- Terminals heat shrink crimp
- Coaxial terminators and PCB

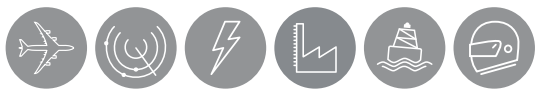
A single step easy to use method of producing high quality wire splicing, solder crimp and sealing in one simple operation. Ideal for industrial applications, through to the high performance demands of the Aerospace, Defence and Motorsport markets.

Temperature capabilities from -65°C to +260°C

TE's dependable wire and cable termination products provide solutions for hundreds of wire and cable interconnect requirements. All wire termination products are housed inside transparent heat-shrinkable insulation sleeves, which provide inspect-ability and can provide various levels of environmental protection.

Most termination products incorporate a fluxed solder preform, which offers a highly controlled soldering process, or incorporate controlled crimping to provide high reliability joints on the widest variety of conductor types and platings.

Many interconnect products have earned UL recognition or MIL-Spec approval. Many SolderSleeve® and related devices are made from polyvinylidene fluoride tubings that meet the requirements of AMS-DTL- 23053/8.



Fast quote turnaround



# Introduction

## Application Guide



The table below is intended as a guide to help establish the device required for your application, or contact us for more information. Specific PDF downloads can be found on our website.

Product Type	Temperature					Conductor Application	Screened Cables	Application			Compliance				Part Series
	125°C	150°C	175°C	200°C	260°C			Commercial	Marine/Rail	Aero/Defence	RoHS	NAS	UL	MIL Spec	
<b>Wire to Wire Splicing</b>															
SolderSleeve	●					Solder		●					●		CWT-900x
	●							●			●				B-155
DuraSeal		●				Crimp			●	●			●		D-1744
	●							●			●		●		D-406
MiniSeal		●				Crimp			●	●				●	D-436
		●							●	●				●	D-436-COLD
					●				●	●				●	D-200-8x
<b>Terminal Disconnects</b>															
DuraSeal Terminals	●					Crimp		●					●	●	B-106
<b>Pin Post Tab</b>															
SolderSleeve Wire Terminators	●					Solder		●					●		CWT
	●							●	●		●		●		B-155
		●						●	●	●			●		D-129 and D-141
<b>Shielded Termination</b>															
SolderSleeve Shield Terminators	●					Solder		●							CWT
	●							●	●	●					B-150 and B-151
	●							●	●	●	●				B-155
	●							●				●			ST18
		●						●		●		●			ST63
		●						●						●	SO63**
		●						●	●	●				●	SO1*, SO2*
		●						●			●				SO3
			●					●	●	●	●	●		●	SO96**
			●					●			●			●	SO175***
					●			●			●			●	S200***
SolderShield Splice		●				Crimp							●	B-023#	
		●				Solder	●						●	D-150	
					●	Crimp	●		●				●	B-202	
						●		●				●	D-200		
<b>Coaxial Cable Termination</b>															
SolderSleeve Coaxial Terminators	●					Solder		●							CWT
	●							●			●				B-155
		●						●	●	●			●		B-02x and B-04x
Soldersleeve PCB		●				Crimp			●	●			●		D-181
		●						●						●	D-607 and B-046
<b>Connector Contacts</b>															
SolderTact Contacts		●				Solder	●	●	●	●					D-602

\* Qualified to SAE-AS83519 | \*\* Meets performance requirements of SAE-AS83519 and NAS1747 | \*\*\* Meets performance requirements of SAE-AS83519 | # With RoHS exemptions

## Wire to Wire Splices

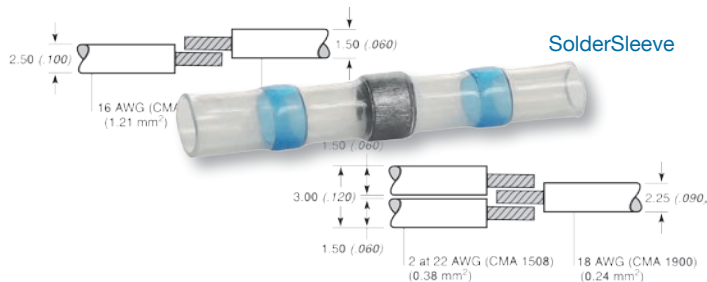
### SolderSleeve

For crimp free sealed wire to wire splicing. In a single step process they solder, insulate, encapsulate and strain relieve wire to wire splices, in a wide range of sizes.

**CWT Series** splash proof, UL E87681

**B-155** RoHS splash proof, UL E87681

**D-1744 Series** immersion sealed, NAS-1744



### DuraSeal crimp

**D-406 Series** offers all in one heatshrink watertight seal and superior protection against corrosion and vibration. UL CUL E87681 and Lloyds listed file 65 247 HH 02-93.

### MiniSeal crimp

**D-436 Series** small lightweight and low-profile splices, substantially reduce wire bundle size and weight. Approvals include SAE-AS81824/1.

**D-200 Series** high temperature version of the D-436 series. Approvals include SAE-AS81824/1 (modified for 200°C).

**D-436-COLD Series** simple one step self sealing immersion resistant crimped in-line splice, that requires no heat. Approvals SAE-AMS-DTL-23053/8 and SAE-AS81824/12

## Shield Terminators and Splices

### Shield Terminators SolderSleeve

An environmentally sealed and insulated solder connector with option of including a pre-installed ground lead or braid.

**CWT Series** for commercial applications.

**B-155 Series** RoHS compliant version of CWT for low temperature cables where UL rating is required.

**B-150 and B-151 Series** suitable for Marine and RMT low fire hazard applications.

**B-023 Series** high temperature terminator offering up to 260°C performance and RoSH compliant.

### Thermochromic thermal indicator versions

**SO1, SO2 and SO3 Series** designed for operating temperatures up to 150°C, qualified to SAE-AS83519/1

**SO96 Series** immersion resistant, meets SAE-AS83519 and NAS1747, with operating temperature up to 175°C.

### Bi-alloy thermal indicator versions

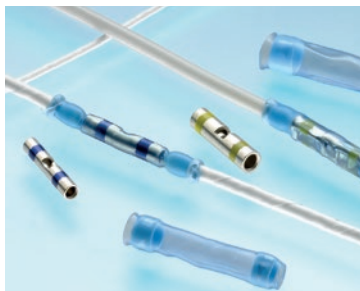
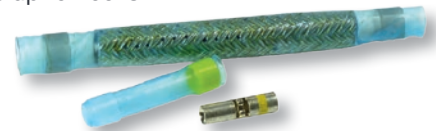
**SO63# and SO175 Series** immersion resistant, meets SAE-AS83519 and environmental to NAS-1747#.

**S-200 Series** immersion resistant to SAE-AS83519 and operating temperature up to 200°C.

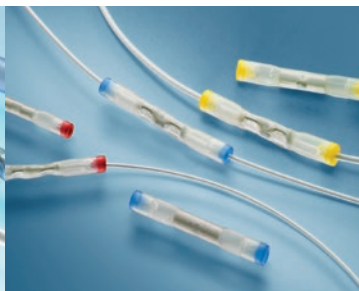
### Cable to Cable Splicing SolderShield

Designed for single or multi-conductor shielded cables, maintaining the EMI performance and integrity. Approvals include RAF AP 1130-2008-1 and SAE-AS81824/1

**D-150 Series** for temperatures up to 150°C and **D-200 Series** for operating temperatures up to 200°C.



MiniSeal Crimp Splice



Cold Applied Splice



Shield Terminators



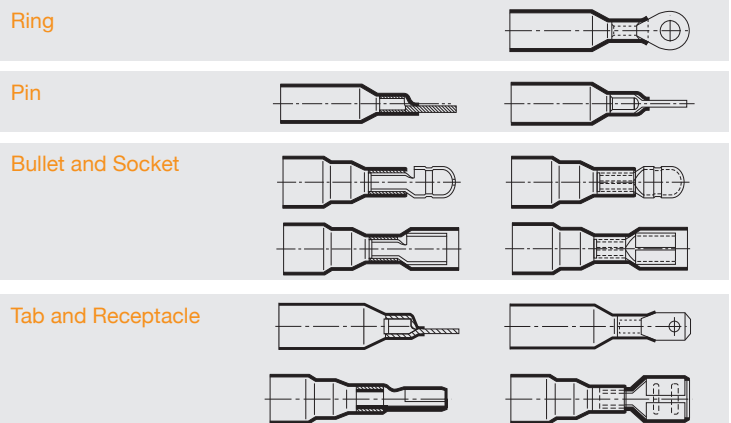
DuraSeal Terminals

## Terminals

### DuraSeal crimp terminals

**B-106 Series** terminals and disconnects protect against water, condensation, salt and corrosion. Their tough heat shrinkable nylon tubing resists abrasion and cut through damage, provides strain relief and protects against vibration damage. Quick and easy to install using a crimp tool and a heat source.

UL and CUL 91J4, file E87681 | Lloyds 65 247 HH 02-93  
UL and CUL E157833 (B106-3 & B106-4 series)





## Coaxial Cable Terminators

SolderSleeve coaxial cable terminators

**CWT Series** two piece device for use on cables rated 85°C (min). With cross linked polyethylene tin plated 22 AWG lead.

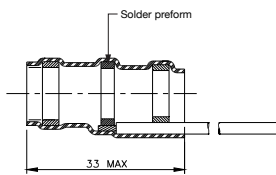
**B-155 Series** RoSH compliant version of the CWT Series.

**B-02x and B-04x Series** single piece device for use on cables rated 125°C (min), to M81822/13 or MIL-W-22759/32.

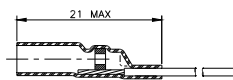
**D-181 Series** two piece device that can interlock to form single piece, for use on cables rated 125°C (min) with silver or tin plated lead to M81822/13 or MIL-W-22759/32.

**D-184 Series** two piece device that can interlock to form single piece, for use on cables rated 85°C (min), with silver or tin plated lead to M81822/13 or MIL-W-22759/32.

Part A, Ground



Part B, Conductor



## PinPostTab Terminators

SolderSleeve pin post tab

Simply position over the pre-stripped wire/pin and apply heat. Results in the perfect soldered, insulated and strain relieving termination. Both UL and CUL E87681 recognised.

**CWT** offers performance up to 125°C, utilising cross linked heat shrinkable polyolefin insulation.

**B-155 Series** RoHS version of CWT above.

**D-129 and D-141 Series** performance up to 150°C, cross linked heat shrinkable polyvinylidene fluoride insulation.

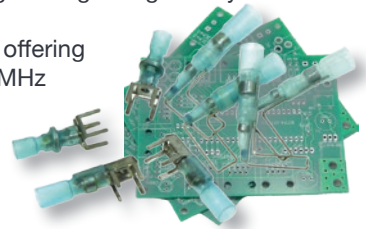
## PCB Coax Terminators

SolderSleeve PCB coaxial terminators

Used for the termination of coaxial cable to printed circuit boards. Pre-fluxed solder preform provides controlled soldering process

**D-607 Series** matched impedance PCB terminators offering up to 2.3 GHz, metal body. Straight or right angle entry to PCB and grid pattern.

**B-046 Series** PinPak terminators offering effective transmission up to 100 MHz



## Contacts high density

SolderTacts connector contacts

One-piece controlled soldering, designed to facilitate faster and more reliable terminations, eliminating the variables associated with crimping, accelerates production while reducing handling and installed costs.

Enables a twisted pair or screened cable to be terminated in one simple operation, in a single contact.

**D-602 and D-610 Series** available in commercial, subminiature and MIL designs.



Coaxial Terminators



PinPostTab



PCB Coax



SolderTacts

All information provided is believed to be reliable. We advise however that customers should separately evaluate the suitability of our products for their particular application. IS-Rayfast give no guarantee in respect of the accuracy or sufficiency of the information presented and disclaim any liability regarding its use. Our responsibilities are only those listed in our Standard Terms and Conditions of Sale for these products. In no instance will we be liable for any eventual, indirect, or consequential damage or damages from the sale, resale, transfer, use or misuse of the product.

Tel: +44 (0)1793 616700 • Fax: +44 (0)1793 644304  
uksales@is-rayfast.com • export@is-rayfast.com

[www.is-rayfast.com](http://www.is-rayfast.com)

2 Lydiard Fields, Swindon, Wiltshire, SN5 8UB, UK.