SPACE SPLICE SERIES



Wire Connecting Solution ESCC 3401/097 With removable D*MA crimp contacts ESCC 3401/005

Features and Benefits

- · Replacement of manual splices by standard solution
- Compliant with ESA/ESCC specifications
- Easy to use
- Removable D*MA crimp type contacts standard
- · Compact format and designed to accept the most popular cable gauges
- Non-outgassing
- Low residual magnetism
- High radiation and temperature resisntace (PEEK material)

Typical Applications

- Space equipment
- Satellites harnesses and payloads
- Avionics/ Military

Specification

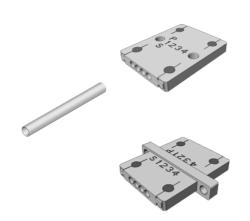
- High performance wires to wires connectors ESA qualified, for space applications.
- Compliant to ESCC specifications 3401/097 Connectors and 3401/005 Removable Crimp Contacts.
- Suitable for use in Space, and high performance military/ aerospace applications: Board to Board, Board to Cable or Cable to Cable applications.
- Removable contacts (D*MA technology).
- Cable sizes: AWG20, AWG22, AWG24, AWG26 and AWG28.
- 1 way and 4 ways connections available.
- 4 ways variants:
 - Radial fixing mount (Stackable)
 - Axil fixing for panel mount

Electrical & Mechanical Characteristics

CHARACTERISTIC	SPECIFICATION	
Working Voltage - 1 way (sea level)	300 Vrms	
Working Voltage - 4 ways (sea level)	250 Vrms	
Rated Current	7.5 A	
Contact Resistance	5 m Ω (rated current)	
Insulation Resistance at 500 V DC	50 MΩ min	
Voltage Proof - 1 way	1250 Vrms /2.0mA	
Voltage Proof - 4 ways	1000 Vrms /2.0mA	
Residual Magnetism Level (NMB)	<200 Gama	
Temperature Range	-55/+125 °C	
Radiation Resistance	>1x10 ⁶ Rads	
Contact Retention Force	40 N max	

MATERIALS & FINISHES

COMPONENT	MATERIAL	FINISH
Insulator	PEEK	UL-94-V0, natural color
Retention Clip	Berylium Copper Alloy	Raw material
Socket Contacts	Copper Alloy	1.27 µm Gold over Copper underlay
Pin Contacts	Copper Alloy	1.27 µm Gold over Copper underlay



Quality Level

- ESA / ESCC: code 3401 (Flying model).
- Qualification reviewed every 2 years.

Process Contact and Cable Insertion

- Cables crimping onto contacts with standard D*MA Crimping tool M22520/2-01 and locator M22520/2-08 (to be ordered separately).
- Wires cable installed by the end user.

Test Retention

• A dedicated tool is available to make the retention test of each contacts in the connectors.

Process Contact and Cable Extraction

 A dedicated tool M81969/39-01 is available to remove the contacts from the connectors (1 extract tool delivered per bag).

Packaging

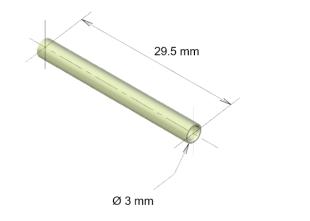
- Space Splice 1 way: 50 pcs per bag. One extract tool M81969/39-01 delivered per bag.
- Space Splice 4 ways: Individual packaging. One extract tool M81969/39-01 delivered par bag.
- Traceability associated as per ESA/ESCC specifications.



PART NUMBER - DESCRIPTION

Part Number: C115366-2776C ESA/ESCC Description: 340109701B

DIMENSIONS & WEIGHT



Mass: 0.2 gr

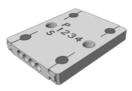
USE EXPLANATION

Wires to wires connecting solution



- For insertion of contacts wired with AWG26/28 (without shrinkable tube), the use of insertion tool is mandatory
- If different wire sizes are used on each contact side, insert contact with smallest wire size first to perform retnetion test by pushing



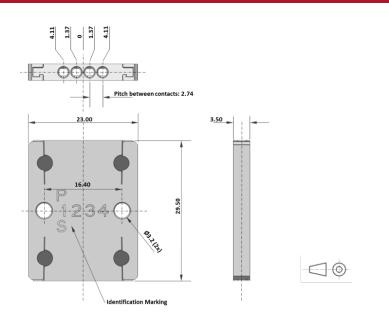


Mass: 3.5 gr

PART NUMBER - DESCRIPTION

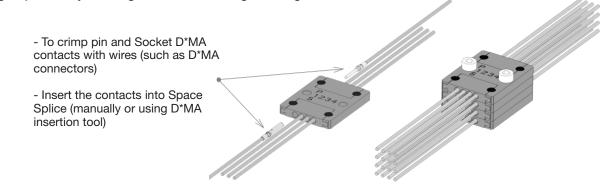
Part Number: C115366-3014C ESA/ESCC Description: 340109702B 04RA3014

DIMENSIONS & WEIGHT



USE EXPLANATION

Wires to wires connecting solution Floating or possibility of fixing the insulator using 2 through holes Possibility of Stacking Products



- For insertion of contacts wired with AWG26/28 (without shrinkable tube), the use of insertion tool is mandatory

- If different wire sizes are used on each contact side, insert contact with smallest wire size first to perform retnetion test by pushing

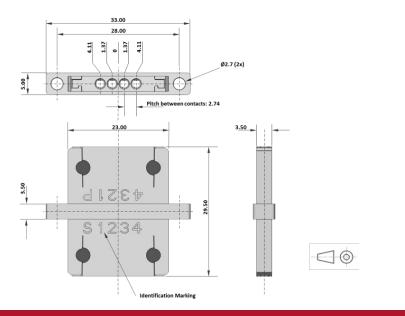


Mass: 4 gr

PART NUMBER - DESCRIPTION

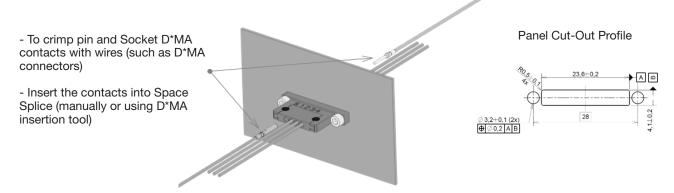
Part Number: C115366-3015C ESA/ESCC Description: 340109702B 04AA3015

DIMENSIONS & WEIGHT



USE EXPLANATION

Wires to wires connecting solution Use to pass through panels



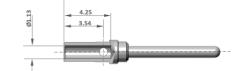
- For insertion of contacts wired with AWG26/28 (without shrinkable tube), the use of insertion tool is mandatory

- If different wire sizes are used on each contact side, insert contact with smallest wire size first to perform retnetion test by pushing



D*MA Contact Pin - Size 20/20 (wire size AWG20, AWG22, AWG24)

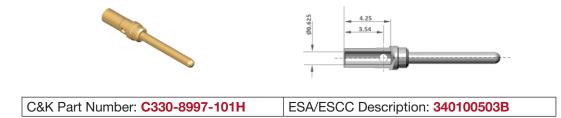




C&K Part Number: C330-8996-101H

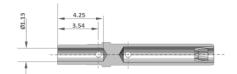
ESA/ESCC Description: 340100501B

D*MA Contact Pin - Size 20/26 (wire size AWG26, AWG28)



D*MA Contact Socket - Size 20/20 (wire size AWG20, AWG22, AWG24)



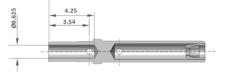


C&K Part Number: C031-8996-101H

ESA/ESCC Description: 340100502B

D*MA Contact Socket - Size 20/26 (wire size AWG26, AWG28)





C&K Part Number: C031-8997-101H

ESA/ESCC Description: 340100504B



ACCESSORIES

Crimping Tool		DESCRIPTION	C&K PART NUMBER
		M22520/2-01	C995-0001-584
Locator		DESCRIPTION	C&K PART NUMBER
		M22520/2-08	C995-0001-604
Insertion / Extraction Tool		DESCRIPTION	C&K PART NUMBER
		M81969/39-01	C980-2000-426
All Space Splice: Contact Probe for Retention Tool - Push Test		DESCRIPTION	C&K PART NUMBER
← 6-32 UNC-2A Compatible with OCETA OCE8	Push test recommended value: All wire size: 20N max	SPLICE-TOOL-RETENTION-01	C115366-2852
Space Splice 1 way only: Contact Probe for Retention Tool - Pull Test		DESCRIPTION	C&K PART NUMBER
← 6-32 UNC-2A Compatible with OCETA OCE8	Pull test recommended value: AWG20, 22, 24, 26: 20N max AWG28: 10N max	SPLICE-TOOL-RETENTION-02	C115366-2853



HDS ESCC Space Splice - July 2021

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

C&K Aerospace:

C330-8996-101H
C031-8997-101H
C330-8997-101H
SPLICETOOLRETENTION02
C115366-2852
C115366-2853

C031-8996-101H
C995-0001-584
C995-0001-604
C115366-2776C
C115366-3014C
C115366-3015C
C980-2000

426

C115366-3014C
C115366-3015C
C980-2000