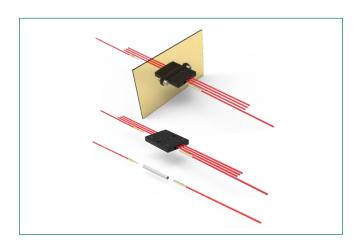
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SpaceSpliceTM Series Wire Connecting Solution ESCC 3401/097

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



Specifications

Quality Level	ESA / ESCC: code 3401 (Flying model)		
	Qualification reviewed every 2 years		
Process Contact/ 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/ Cable Extract	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		

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	$5 \text{ m}\Omega$ (rated current)			
Insulation Resistance at 500 V DC	5000 MΩ min			
Voltage Proof - 1 way	1250 Vrms / 2.0mA			
Voltage Proof - 4 ways	1000 Vrms / 2.0mA			
Residual Magnetism Level (NMB)	<200 Gamma			
Temperature Range	-55/+125 °C			
Radiation Resistance	>1x10 ⁶ Rads			
Contact Retention Force	40 N max			

Description

Standard wires to wires connecting solution to replace hand splice process. It allow you to connect 2 wires using D*MA crimpable and removable contact technology and designed to accept the most relevant gauges. This series is useful to connect electrical components with limited number of wires (thermistors, heaters...). You can create your own connector where the space is limited. Or I allow you to repair harnesses at a lower cost, because ther is no longer any need to redo complete wiring.

Features & Benefits

- Replacement of manual splices by standard solution
- Compliant with ESA/ESCC specifications
- Easy to use
- Removable D*MA crimp type contacts standard

Applications

- Space equipment
- Satellites harnesses and payloads

Specifications

- 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.

- Compact format and designed to accept the most popular cable gauges
- Non-Outgassing
- Low residual magnetism
- High radiation and temperature resistace (PEEK material)
- Avionics/ Military
- 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)
- Axial fixing for panel mount

Materials & Finishes

Component	Material	Finish	
Insulator	PEEK	UL-94-V0, 1 way - natural color 4 ways - black 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	

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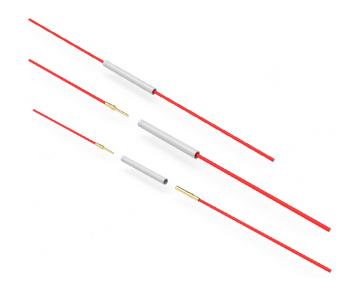






Wires to wires connecting solution

- To crimp pin and Socket D*MA contacts with wires (such as D*MA connectors)
- Insert the contacts into Space Splice (manually or using D*MA insertion tool)
- 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

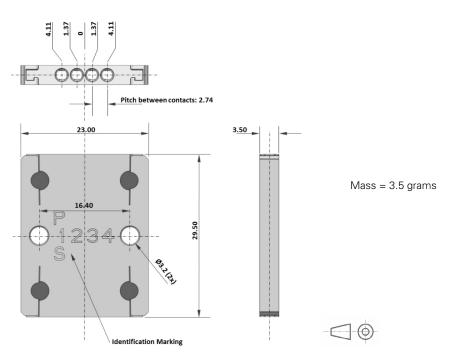


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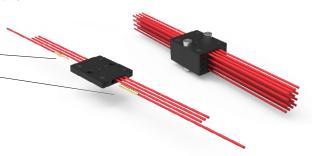




Use Explanation

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

- To crimp pin and Socket D*MA contacts with wires (such as D*MA connectors)
- Insert the contacts into Space Splice (manually or using D*MAinsertion tool).
- 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.



Note: Stacking configuration: 16 conductors



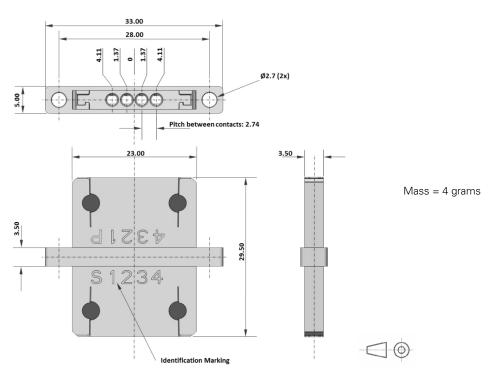
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C&K Switches





Dimensions and Mass (mm)

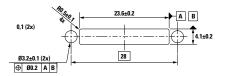


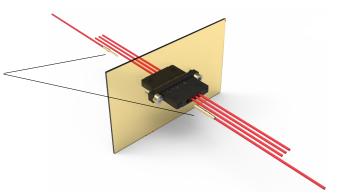
Use Explanation

Wires to wires connecting solution use to pass through panels

- To crimp pin and Socket D*MA contacts with wires (such as D*MA connectors)
- Insert the contacts into Space Splice (manually or using D*MA insertion tool)
- 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 retention test by pushing

Panel Cut-Out Profile





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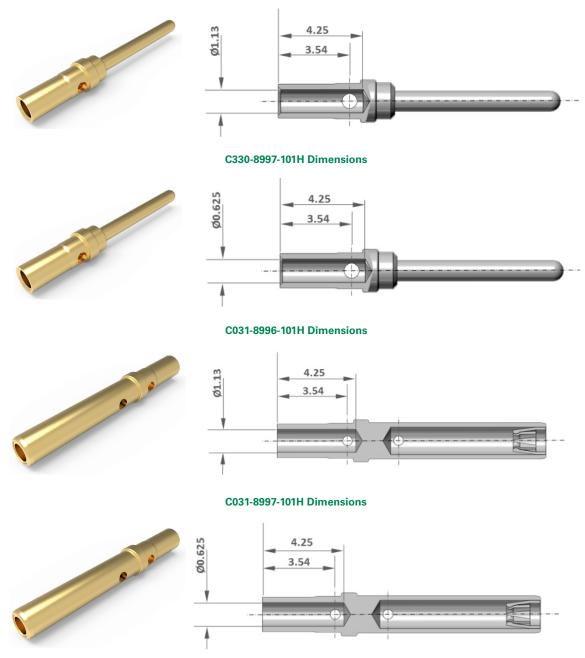
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Sizes & Part Numbers

Part Number	Part	Size	Wire Size	ESA Description
C330-8996-101H	D*MA Contact Pin	20/20	AWG20, AWG22, AWG24	340100501B
C330-8997-101H	D*MA Contact Pin	20/26	AWG26, AWG28	340100503B
C031-8996-101H	D*MA Contact Socket	20/20	AWG20, AWG22, AWG24	340100502B
C031-8997-101H	D*MA Contact Socket	20/26	AWG26, AWG28	340100504B

Note: Measurements in Millimeters

C330-8996-101H Dimensions



Note: Measurements in Millimeters



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SpaceSpliceTM Series Wire Connecting Solution ESCC 3401/097

With removable D*MA crimp contacts ESCC 3401/005

Accessories							
Accessory Image	Accessory Name	Description	Part #				
	Crimping Tool	M22520/2-01	C995-0001-584				
<pre></pre>	Locator	M22520/2-01	C995-0001-604				
	Insertion / Extraction Tool	M81969/39-01	C980-2000-426				
6-32 UNC-2A Compatible with OCETA OCE8	Contact Probe for Retention Tool Push Test ¹	SPLICE-TOOL-RETENTION-01	C115366-2852				
6-32 UNC-2A Compatible with OCETA OCE8	Contact Probe for Retention Tool Pull Test ²	SPLICE-TOOL-RETENTION-02	C115366-2853				

Note: 1. Push test recommended value: All wire size: 20N max

2. Pull test recommended value: AWG20, 22, 24, 26: 20N max AWG28: 10N max

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