

CONNECTORS, MINIATURE, ELECTRICAL, CIRCULAR, TRIPLE-START SELF- LOCKING COUPLING, SCOOP-PROOF, HERMETIC RECEPTACLE AND FEEDTHROUGH BASED ON TYPE MIL-C-38999, SERIES III				288D
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 3401 Detail ESCC 3401/079	AXON' CABLE S.A. Montmirail France	Qualification	CNES	May 2009
Remarks				
Qualified range: Variants 01 to 18 are qualified Variants 01 to 08: Plug 3 and 4 Lugs, Straight and Right Angle with pin contact Variants 09 to 18: Bulkhead Jacks, 3 and 4 Lugs, Straight and Right Angle with solder contact All cables are 77Ω MIL-STD-1553B Data Bus twisted shielded pairs Working Voltage: 200 Vrms Rated Current (contact): 1A Operating Temperature Range (°C): -55 to +150				

WIRES AND CABLES, LOW FREQUENCY, POLYIMIDE INSULATION BASED ON TYPES 3901001**B and 3901002**B				132R
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 3901 Detail ESCC 3901/001 3901/002	AXON' CABLE Montmirail France	Qualification	CNES	Jan 1979
Remarks				
Qualified range: 3901/001: variants 24 to 47 3901/002: variants 31 to 73 Voltage Rating, maximum (Vrms): 600 Temperature Range (°C): -100 to +200				

WIRES AND CABLES, LOW FREQUENCY, PTFE/POLYIMIDE INSULATION, BASED ON TYPES 3901013**B				292F
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 3901 Detail ESCC 3901/013	AXON' CABLE Montmirail France	Qualification	CNES	Jun 2009
Remarks				
Qualified range: All variants are qualified Voltage Rating, maximum (Vrms):600 Temperature Range (°C): -100 to +200				

WIRES AND CABLES, LOW FREQUENCY, PTFE/POLYIMIDE INSULATION, BASED ON TYPES 3901019**B				268J
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 3901 Detail ESCC 3901/019	AXON' CABLE Montmirail France	Qualification	CNES	Jun 2002
Remarks				
Qualified range: All variants are qualified Voltage Rating, maximum (Vrms):600 Temperature Range (°C): -200 to +200				

WIRES AND CABLES, LOW FREQUENCY, 600V, SILVER-PLATED COPPER, EXTRUDED CROSSLINKED FLUOROPOLYMER INSULATION, BASED ON TYPE 3901012**B				267K
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 3901 Detail ESCC 3901/012	AXON' CABLE Montmirail France	Qualification	CNES	Mar 2002
Remarks This product is not intended for human space flight applications.				
Qualified range: All variants are qualified Wire code ISO 2635 Voltage Rating, maximum (Vrms):600 Temperature Range (°C): -100 to +200				

WIRES AND CABLES, LOW FREQUENCY, INSULATED, POLYIMIDE/FLUOROTHERMOPLAST, BASED ON TYPE SPM				300F
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 3901 Detail ESCC 3901/018	AXON' CABLE Montmirail France	Qualification	CNES	Dec 2009
Remarks				
Qualified range: Variants 01 to 88 are qualified AWG 30 and 32 variants are qualified. Expanded PTFE, extruded polyimide/ FEP, sintered PTFE insulated wires. Voltage Rating, maximum (Vrms) : 600 Temperature Range (°C): -200 to +200				

POLYIMIDE INSULATED SHIELDED CABLES WITH DRAIN WIRE, LOW FREQUENCY, BASED ON TYPES 3901021**B				293F
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 3901 Detail ESCC 3901/021	AXON' CABLE Montmirail France	Qualification	CNES	Jun 2009
Remarks				
Qualified range: All variants are qualified Voltage Rating, maximum (Vrms):600 Temperature Range (°C): -200 to +200				

WIRES AND CABLES, LOW FREQUENCY, FLUROPOLYMER INSULATION, 600V, BASED ON TYPE CSWL				299F
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 3901 Detail ESCC 3901/024	AXON' CABLE Montmirail France	Qualification	CNES	Dec 2009
Remarks				
Qualified range: Variants 01 to 64 are qualified (AWG 30 variants is qualified) Wires and Cables variants consist of 1, 2, 3 and 4 cores with and without jackets and shields NOTE: The high strength toughened fluoropolymer PTFE tape (HST-F) use for the manufacturing of the primary insulation of the wire is named "ART tape". Voltage Rating, maximum (Vrms):600 Temperature Range (°C): -200 to +200				

WIRES AND CABLES, RADIO FREQUENCY, FLEXIBLE, COAXIAL, TRIAXIAL AND SYMMETRIC, BASED ON TYPE 3902/002				298F
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 3902 Detail ESCC 3902/002	AXON' CABLE Montmirail France	Qualification	CNES	Dec 2009
Remarks				
Qualified range: Variants 03 to 06, 10 to 13 and 20 to 30 are qualified Variants encompass coaxial, triaxial, and balanced shielded line Temperature range (°C): -200 to +180				

WIRES AND CABLES, SPACEWIRE, ROUND, QUAD SYMMETRIC, FLEXIBLE, BASED ON TYPE SPACEWIRE				291F												
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date												
Generic ESCC 3902 Detail ESCC 3902/003	AXON' CABLE Montmirail France	Qualification	CNES	Dec 2009												
Remarks																
Qualified range:																
Variant 01 AWG 28/07 (white) and variant 02 AWG 26/07 (blue) are qualified																
<table><tr><th>Variant</th><th>Data Rate</th><th>Operating Voltage (Continuous), (Vrms)</th><th>Current (A)</th></tr><tr><td>01</td><td>100Mb/s - 400MHz</td><td>200</td><td>1.5</td></tr><tr><td>02</td><td>200Mb/s - 400MHz</td><td>200</td><td>2.5</td></tr></table>					Variant	Data Rate	Operating Voltage (Continuous), (Vrms)	Current (A)	01	100Mb/s - 400MHz	200	1.5	02	200Mb/s - 400MHz	200	2.5
Variant	Data Rate	Operating Voltage (Continuous), (Vrms)	Current (A)													
01	100Mb/s - 400MHz	200	1.5													
02	200Mb/s - 400MHz	200	2.5													
Temperature range (°C): -200 to +180																

WIRES AND CABLES, SPACEWIRE, ROUND, QUAD SYMMETRIC, FLEXIBLE, BASED ON TYPE SPACEWIRE				335C
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 3902 Detail ESCC 3902/004	AXON' CABLE Montmirail France	Qualification	CNES	Oct 2015
Remarks				
Qualified range: Variant 01 is qualified. Temperature range (°C): -100 to +150				

RF Cable Assembly, 2.4mm connectors, low power, 50 ohms, flexible cable, DC to 45Ghz based on type Axowave SL34SQ				365																								
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date																								
Generic ESCC 3408 Detail ESCC 3408/003	Axon' Cable, France	Qualification	CNES	February 2020																								
Remarks																												
All variants qualified																												
<table><tr><td>Characteristics</td><td>Maximum Ratings</td><td>Units</td><td>Remarks</td></tr><tr><td>Nominal Impedance</td><td>50</td><td>Ω</td><td></td></tr><tr><td>Operating Frequency Range</td><td>DC to 45</td><td>GHz</td><td>AC (50Hz) without breakdown</td></tr><tr><td>Working Voltage</td><td>500</td><td>Vrms</td><td></td></tr><tr><td>Minimum Bending Radius</td><td>40</td><td>mm</td><td></td></tr><tr><td>Operating Temperature Range</td><td>-55 to +125</td><td>°C</td><td></td></tr></table>					Characteristics	Maximum Ratings	Units	Remarks	Nominal Impedance	50	Ω		Operating Frequency Range	DC to 45	GHz	AC (50Hz) without breakdown	Working Voltage	500	Vrms		Minimum Bending Radius	40	mm		Operating Temperature Range	-55 to +125	°C	
Characteristics	Maximum Ratings	Units	Remarks																									
Nominal Impedance	50	Ω																										
Operating Frequency Range	DC to 45	GHz	AC (50Hz) without breakdown																									
Working Voltage	500	Vrms																										
Minimum Bending Radius	40	mm																										
Operating Temperature Range	-55 to +125	°C																										
Shielding effectiveness 90dB from DC to 18GHz and 70dB from 18 to 40GHZ																												

CONNECTORS, ELECTRICAL, RECTANGULAR, MICROMINIATURE BASED ON TYPE MDM and MDSA D-CLICK.				<u>370</u>
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC <u>3401</u>	<u>Axon' Cable, France</u>	Qualification	CNES	Jan 2021
Detail ESCC		Remarks		
<u>3401/029, 3401/032, 3401/091</u>				
Qualified range:				
3401/029 (MDSA): Shell variant 01 (Nickel finish). Contacts arrangements: 09-15-21-25-31-37-51 (non removable crimp contacts). Contacts termination type: FR112 to FR116, FR112A to FR115A, FR112B to FR115B, FR123, FR123A, FR123B, FR139,75SBB, 75SBT, 75RBB, 75RBT, CBRB, CBRT.				
3401/091 (MDSA D-CLICK): Connector variants 01 to 06, Jumper variants 07 to 09. Contacts arrangements: 09-15-21-25-31-37 (non removable crimp contacts).				
3401/032: Accessories variants 07, 08, 21 to 38				
Operating Temperature Range (°C): -55 to +125				