

WIRES AND CABLES, LOW FREQUENCY, POLYIMIDE INSULATION BASED ON TYPES 3901001**B and 3901002**B				132T
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				292H
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 3901	AXON' CABLE Montmirail France	Qualification	CNES	Jun 2009
Detail ESCC 3901/013		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				268L
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: Variants 01 to 94 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				267M
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: Variants 01 to 80 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				300H
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 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				293H
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: Variants 01 to 41 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				299H
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 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				298H
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				291H												
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><td>Variant</td><td>Data Rate</td><td>Operating Voltage (Continuous), (Vrms)</td><td>Current (A)</td></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				335E
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				365B																														
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date																														
Generic ESCC 3408	Axon' Cable, France	Qualification	CNES	February 2020																														
Detail ESCC 3408/003		Remarks																																
All variants qualified																																		
<table><tr><td>Characteristics</td><td>Maximum Ratings</td><td>Units</td><td colspan="2">Remarks</td></tr><tr><td>Nominal Impedance</td><td>50</td><td>Ω</td><td colspan="2"></td></tr><tr><td>Operating Frequency Range</td><td>DC to 45</td><td>GHz</td><td colspan="2">AC (50Hz) without breakdown</td></tr><tr><td>Working Voltage</td><td>500</td><td>Vrms</td><td colspan="2"></td></tr><tr><td>Minimum Bending Radius</td><td>40</td><td>mm</td><td colspan="2"></td></tr><tr><td>Operating Temperature Range</td><td>-55 to +125</td><td>°C</td><td colspan="2"></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.				370A
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 3401	Axon' Cable, France	Qualification	CNES	Jan 2021
Detail ESCC		Remarks		
3401/029, 3401/032, 3401/091				
Qualified range:				
3401/029 (MDSA):	Shell variant 01 (Nickel finish) and variant 02 (Gold 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				

RF Cable assembly, 2.92mm connectors, low power, 50 ohms, flexible cable, DC to 32 Ghz, based on type AXOWAVE 44SLQ				383
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 3408	Axon' Cable, France	Qualification	CNES	September 2022
Detail ESCC 3408/004		Remarks		
Variants 01,02 and 03 are qualified				
Operating Temperature Range -55 to +125 °C				

6.1.2 High Data Rate

High Data Rate Cable assembly with microminiature rectangular coaxial connectors based on Types Axomach and Spacefibre				385
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 3409 Detail ESCC 3409/001	Axon' Cable, France	Qualification	ESA	January 2024
Remarks				
Qualified range: 3409/001: Variant 01 Connector codes 1 to 18 Direct and Indirect wiring Operating Temperature Range (°C): -55 to +125				

CONNECTORS, SAVERS AND ACCESSORIES, RECTANGULAR, MICROMINIATURE, HIGH DATA RATE BASED ON TYPES AXOMACH AND SPACEFIBRE				386
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 3401 Detail ESCC	Axon' Cable, France	Qualification	CNES	Jan 2024
Remarks: qualification testing has been performed in accordance with ESCC Generic Specification No. 3409 Para. 7.1 and Chart F4A (as defined by ESCC detail specs 3401/089 and 3401/090 Appendix A)				
3401/089, 3401/090				
Qualified range: 3401/089 Variant 01, 02, 03, 04, 05, 06, 07, 08 3401/090 Variant 01, 02, 03, 04, 05, 06, 07 Operating Temperature Range (°C): -55 to +125				