| CONNECTORS,<br>ELECTRICAL, SOLDER AND WIRE WRAP CONTACTS,<br>NON-REMOVABLE, RECTANGULAR RECEPTACLE AND PLUG,<br>BASED ON TYPE D*M | | | | **155R** |
|---|---|---|---|---|
| Procurement Specifications | Manufacturer | Nature of Approval | Supervising Authority | Initial Qualification Date |
| Generic<br>ESCC 3401<br>Detail ESCC | SOURIAU<br>Connection Technology<br>Marolles en Brie<br>France | Qualification | CNES | Sep 1988 |
| | | Remarks: Any order placed after 09/2023 will be delivered with Peek insulation instead of DAP (insulator colour black instead of green), as specified in Souriau's bulletin FEP-008-02-2023. | | |
| 3401/001, 3401/022, 3401/072, 3401/004, 3401/040 | | | | |

Qualified range:

Complete range as defined in the Detail Specifications are qualified except for:

- high density 104 contacts arrangement
- coaxial and power contacts and arrangement

Range of Connectors: 3401/001: variants 01 to 02

Range of Contacts: Size 20 : 9, 15, 25, 37 and 50 contacts,
Size 22: 15, 26, 44, 62, 78 contacts
3401/022: variants 01 to 16 & 44 to 57 & 65 to 80
3401/072: variants 01 to 65
3401/004: variants 01 to 20
3401/040: variants 01 to 12

Mounting Type: blank: standard mounting holes; Y: floating mount; E: captive nuts

Gold-plated non-magnetic coating

Operating Temperature Range (°C): -55 to +125

| CONNECTORS AND CONNECTOR SAVER, ELECTRICAL, CRIMP CONTACTS, REMOVABLE RECTANGULAR RECEPTACLE AND PLUG, BASED ON TYPE D*MA, | | | | **156Q** |
|---|---|---|---|---|
| Procurement Specifications | Manufacturer | Nature of Approval | Supervising Authority | Initial Qualification Date |
| Generic<br>ESCC 3401<br>Detail ESCC | SOURIAU Connection Technology Marolles en Brie France | Qualification | CNES | Sep 1988 |
| | | Remarks; Any order placed after 09/2023 will be delivered with Peek insulation instead of DAP (insulator colour black instead of green), as specified in Souriau's bulletin FEP-008-02-2023. | | |
| 3401/002, 3401/005, 3401/020, 3401/021, 3401/022, 3401/072 | | | | |

Qualified range:
Complete range as defined in the Detail Specifications are qualified except for high density 104 contacts arrangement

| | |
|---|---|
| Accessories variants qualified: | 3401/022: variants 01 to 16 & 44 to 57 & 65 to 80<br>3401/072: variants 01 to 65 |
| Range of Connectors: | 3401/002: variants 01 and 02<br>3401/005: variants 01 to 08<br>3401/021 & 022: variants 01 and 02 |
| Range of contacts: | 9, 15, 25, 37 and 50 contacts size 20 for standard contact arrangements<br>15, 26, 44, 62, 78 contacts size 22 for high density contact arrangements<br><br>- Accepts wire sizes AWG # 20 to 24 (standard bucket: variants 01 and 02)<br>- Accepts wire sizes AWG # 26 and 28 (reduced bucket: variants 03 and 04)<br>- Accepts wire size AWG# 18 and 20 (large bucket: variants 05 and 06)<br>- Accepts wire size AWG # 22, 24 and 26 (contact AWG # 22 for high density, contact arrangements, variants 07 and 08) |
| Connector Savers: | For usage with connector range defined above |

Gold-plated non-magnetic coating

Operating Temperature Range (°C): -55 to +125

| CONNECTORS, ELECTRICAL, CIRCULAR, BAYONET COUPLING, SCOOP-PROOF, REMOVABLE CRIMP CONTACTS, BASED ON TYPE MIL-C-38999, SERIES | | | | **220N** |
|---|---|---|---|---|
| Procurement Specifications | Manufacturer | Nature of Approval | Supervising Authority | Initial Qualification Date |
| Generic<br>ESCC 3401<br>Detail ESCC | SOURIAU<br>Connection Technology<br>Marolles en Brie<br>France | Qualification | CNES | May 1995 |
| | | Remarks | | |
| 3401/052, 3401/058, 3401/062 | | | | |

Qualified range:

All connector variants are qualified
For 3401/058, variants 01 to 14 are qualified
For 3401/062, variants 01 to 27 are qualified

# 20 with standard contact arrangements 3, 6, 10, 19, 26, 32, 41, 53, 61
# 22 with high density arrangements 6, 13, 22, 37, 55, 66, 79, 100, 128

| Contact size | Ratings (A) |
|---|---|
| 4 | 80 |
| 8 | 46.0 |
| 12 | 23.0 |
| 16 | 13.0 |
| 20 | 7.5 |
| 22 | 5.0 |

Other arrangements with contact sizes: 20, 16, 12, 8

Receptacle and Plug Shell Sizes: 09, 11, 13, 15, 17, 19, 21, 23, 25

Operating Temperature Range (°C): -65 to +200

| CONNECTORS, ELECTRICAL, CIRCULAR, BAYONET COUPLING, REMOVABLE CRIMP CONTACTS, BASED ON TYPE MIL-C-38999, SERIES II | | | | **221N** |
|---|---|---|---|---|
| Procurement Specifications | Manufacturer | Nature of Approval | Supervising Authority | Initial Qualification Date |
| Generic<br>ESCC 3401<br>Detail ESCC | SOURIAU<br>Connection Technology<br>Marolles en Brie<br>France | Qualification | CNES | May 1995 |
| | | Remarks | | |
| 3401/044, 3401/045, 3401/062 | | | | |

Qualified range:

For 3401/044, all variants are qualified
For 3401/045, variants 01 to 08 are qualified
For 3401/062, variants 01 to 27 are qualified

| Contact size | Ratings (A) |
|---|---|
| 12 | 23.0 |
| 16 | 13.0 |
| 20 | 7.5 |
| 22 | 5.0 |

# 20 with standard contact arrangements 3, 6, 10, 18, 26, 32, 41, 55, 61
# 22 with high density arrangements 6, 13, 22, 37, 55, 66, 79, 100, 128

Other arrangements with contact sizes: 20, 16, 12

Receptacle and Plug Shell Sizes: 08, 10, 12, 14, 16, 18, 20, 22, 24

Operating Temperature Range (°C): -65 to +200

| CONNECTORS, MINIATURE, ELECTRICAL, CIRCULAR, TRIPLE-START SELF- LOCKING COUPLING, SCOOP-PROOF, REMOVABLE AND NON-REMOVABLE CRIMP CONTACTS BASED ON TYPE MIL-C-38999, SERIES III | | | | **222N** |
|---|---|---|---|---|
| Procurement Specifications | Manufacturer | Nature of Approval | Supervising Authority | Initial Qualification Date |
| Generic<br>ESCC 3401<br>Detail ESCC | SOURIAU<br>Connection Technology<br>Marolles en Brie<br>France | Qualification | CNES | May 1995 |
| | | Remarks | | |
| 3401/056, 3401/058, 3401/062, 3401/066, 3401/070 | | | | |

Qualified range:

3401/056, all variants are qualified
3401/058, variants 01 to 14 are qualified
3401/062, variants 28 to 54 are qualified
3401/066, variants 01 and 02 are qualified
3401/058 crimp contacts and
3401/066 triax contacts to be mounted on 3401/056 connectors
3401/070 connector receptacles with PCB contacts

| Crimp contact size | Ratings (A) | PCB contact size | Ratings (A) |
|---|---|---|---|
| 4 | 80.0 | | |
| 8 | 46.0 | 16 | 10.0 |
| 12 | 23.0 | 20 | 5.0 |
| 16 | 13.0 | 22 | 3.0 |
| 20 | 7.5 | | |
| 22 | 5.0 | | |

#20 with standard contact arrangements (3, 4, 5, 6, 7, 8, 10, 18, 19, 26, 32, 41, 53, 55, 61 contacts)
#22 with high density arrangements (6, 13, 22, 37, 55, 66, 79, 100, 128 contacts)

Other arrangements with contact sizes:# 20, 16, 12, 8 ,4

Receptacle and Plug Shell Sizes: 09, 11, 13, 15, 17, 19, 21, 23, 25. Triax contacts

Operating Temperature Range (°C): -65 to +200

| CONNECTORS, MINIATURE, ELECTRICAL, CIRCULAR, TRIPLE-START SELF- LOCKING COUPLING, SCOOP-PROOF, HERMETIC RECEPTACLE AND FEEDTHROUGH BASED ON TYPE MIL-C-38999, SERIES III | | | | **223M** |
|---|---|---|---|---|
| Procurement Specifications | Manufacturer | Nature of Approval | Supervising Authority | Initial Qualification Date |
| Generic<br>ESCC 3401<br>Detail ESCC<br>3401/057 | SOURIAU<br>Connection Technology<br>Marolles en Brie<br>France | Qualification | CNES | May 1995 |
| | | Remarks | | |

Qualified range:

All variants are qualified.

| Contact size | Ratings (A) |
|---|---|
| 8 | 33 |
| 12 | 17 |
| 16 | 10 |
| 20 | 5.0 |
| 22D | 3.0 |

# 20 with standard contact arrangements (3, 6, 10, 19, 26, 32, 41, 53, 61 contacts)
# 22 with high density arrangements (6, 13, 22, 37, 55, 66, 79, 100, 128 contacts)

Receptacle Shell Sizes: 09, 11, 13, 15, 17, 19, 21, 23, 25

Receptacle (contacts # 8, 12, 16, 20, 22D) and Feedthrough (contacts # 8, 12, 16, 20, 22D)

Operating Temperature Range (°C): -65 to +200

| CONNECTORS, ELECTRICAL, RECTANGULAR, MICROMINIATURE, REMOVABLE AND NON- REMOVABLE, GAUGE 26, PCB PIN CONTACT, BASED ON TYPE 8MCG | | | | **301G** |
|---|---|---|---|---|
| Procurement Specifications | Manufacturer | Nature of Approval | Supervising Authority | Initial Qualification Date |
| Generic<br>ESCC 3401<br>Detail<br>ESCC | SOURIAU CONNECTION TECHNOLOGY Marolles en Brie France | Qualification | CNES | Jun 2010 |
| | | Remarks | | |
| 3401/081, 3401/082, 3401/083, 3401/084, 3401/088 | | | | |

Qualified range:

3401/081: Shell variant 02 (aluminium alloy).

Contacts arrangements: 7, 13, 25, 51, 104 contacts.
Contacts termination: OL3 (straight PCB), 1A7N (900 PCB 2.54mm spacing), 1B7N (900 PCB 2.54mm spacing).
Gold-plated shells.

3401/082: Shell variant 02 (aluminium alloy).

Contacts arrangements: 7, 13, 25, 51, 104 contacts.

3401/083: Contacts variant 01 (male crimp barrel 26), 02 (female crimp barrel 26), 03 (male crimp barrel 24), 04 (female crimp barrel 24).

Accepts wires AWG 24, 26, 28

3401/084: Accessories variants 01 to 62.

3401/088: Shell variant 02 (aluminium alloy).

Contacts arrangements: 7, 13, 25, 51, 104 contacts.

Operating Temperature Range (°C): -55 to +125