



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title: **Polymide/Fluorothermoplast insulated wires and cables, low frequency, 600V, -200°C to +200°C based on type SPM according to ESCC Detail Specification No. 3901/018**

Executive Member: **German Space Agency at DLR** Date: **02/04/2026**

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Components (including series and families) submitted for Extension of Qualification Approval:

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ESCC COMPONENT NO.	VARIANTS	RANGE OF COMPONENTS	BASED ON	TEST VEHICLE / S	COMPONENT SIMILAR
3901/018	01 to 88		SPM	3901/018-51B	

Component Manufacturer W.L. Gore & Associates GmbH	2	Location of Manufacturing Plant(s) Nordring1 91785 Pleinfeld Germany	3	Date of original qualification approval: Date: 01/07/1994 Certificate Ref No. 216	4
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ESCC Specifications used for Maintenance of qualification testing: Generic: ESCC 3901 Issue: 5 Detail(s): ESCC 3901/018 Issue: 3	5	Deviations to LVT testing and Detail Specification used: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (supply details in Box 15) Deviation from current Specifications: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (Supply details)	6	Qualification Extension Report reference and date: Details see box 14	7
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Summary of procurement or equivalent test results during current validity period in support of this application (those to ESCC listed first)

8

Project Name	Testing Level	LAT	Date code	Quantity Delivered
See Appendix, confidential: List of space cable orders 23.01.2026				

PID changes since start of qualification None <input type="checkbox"/> Minor* <input type="checkbox"/> Major* <input checked="" type="checkbox"/> *Provide details in box: <u>See Annex 2 / Confidential</u>	9	Current PID Verified by: Burak Gökgöz, German Space Agency at DLR Name of Executive Representative Ref No: PLFWI-1531 Issue: Rev. K Date: 26/03/2026 Rev Date: 09/02/2026	10
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Current Manufacturing facilities surveyed by: **Burak Gökgöz, German Space Agency at DLR** on **05.05.2022**
(Name of Executive Representative) (Date)

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Satisfactory: Yes No Explain

Report Reference: REF GORE-AUD-DLR-2022



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Failure Analysis, DPA, NCCS available: Yes No (Supply data) 12

Ref. No's and purposes:

The undersigned hereby certifies on behalf of the ESCC Executive - that the above information is correct; - that the appropriate documentation has been evaluated; - that full compliance to all ESCC requirements is evidence (except as stated in box 15;); - that the reports and data are available at the ESCC Executive and therefore applies on behalf of DLR as the responsible Executive Member for ESCC qualification status to be extended to the component(s) listed herein.

Date: **02/04/2026**

 Digital signiert von Burak Gökgoz
DN: C=DE, CN=Burak Gökgoz, O=Deutsches Zentrum fuer Luft- und Raumfahrt e. V. (DLR), ST=Nordrhein-Westfalen, E=burak.goekgoez@dlr.de, postalCode=51147, street=Linder Höhe
Grund: Ich bin der Verfasser dieses Dokuments
Ort: Bonn
Datum: 2026.04.27 18:19:43+0200

i.A. Burak Gökgoz
(Signature of the Executive Coordinator)

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Continuation of Boxes above: 14

T.D.R. No.: 11034-5
260312_CofC_SPM 21-26-C Rev. B_P9926006_Sample 2578
Final Production Test, LAT2 Report, LAT1 Report – Production No. P9926006

T.D.R. No.: 11035-5
260312_CofC_SPM 21-26-C Rev. B_P9926007_Sample 2579
Final Production Test, LAT2 Report, LAT1 Report – Production No. P9926007

Difference for the two production lots P9926006/P9926007: old/new tape Teleport, old/new material PFA
See as well material list P9926006/P9926007

Verification Pigment Orange
T.D.R. No.: 10416-5 – Production Date 13.06.2024
A04_CofC_SPM 10-24-3_Requalifikation ESCC 3901-018_WO 9031912PLF
Final Production Test, LAT2 Report, LAT1 Report – Production No. 9031912PLF

Verification Pigment Yellow
T.D.R. No.: 10422-5 – Production Date 13.06.2024
A05_CofC_SPM 10-24-2_Requalifikation ESCC 3901-018_WO 9031911PLF
Final Production Test, LAT2 Report, LAT1 Report – Production No. 9031911PLF

Further details see (all reports are considered as confidential):

20260220_overview matrix
A01_2026-02-25_Validation Status Teleport, including validation plans and reports
A02_EXP1_Validation Status Expansion
A03_PFA_Validation efforts for PFA replacement_20260225, including validation plans and reports
A04_orange_2025_06_30_Validation Status Orange, including validation plans and reports
A05_yellow_2025_06_30_Validation Status Yellow, including validation plans and reports



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Non compliance to ESCC requirements:

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No.:	Specification	Paragraph	Non compliance

Additional tasks required to achieve full compliance for ESCC qualification or rationale for acceptability of noncompliance:

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Executive Manager Disposition

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Application Approval: Yes No

Action / Remarks:

Date: 29/05/2026

A. Zadeh: Head of the Avionics and EEE Division



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NOTES ON THE COMPLETION OF THE APPLICATION FORM FOR ESCC QUALIFICATION EXTENSION APPROVAL

ENTRIES

Form heading

shall indicate: - the title of the component as given in its detail specification or the name of the series, family; - the Executive Member; - the entering date; - the certificate number and its sequential suffix.

Box 1

shall provide details given in the table; in particular there shall be listed: - the variants or range of variants; - the range of components (the ESCC code is recommended to indicate the values or values range, the tolerance, the voltage, etc); the designation given in the detail specification as 'base on'; - under Test Vehicle enter either an ESCC code or the specific characteristic capable of identifying the component tested (e.g., voltage of coil for a relay); - under component similar enter a cross if relevant.

Box 2; 3 and 4

As per QPL entry; otherwise, an explanation of the changes must be supplied.

Box 5

Will show the ESCC Generic and Detail specifications, including issue number and revision letter, current at the time the tests reported were performed. If the specifications are different from those current on the date of the application, see Box 6.

Box 6

Will show the deviations from the Generic and Detail Specifications listed in Box 5, in particular deviations from testing. In case of deviations this must be listed in Box 15. In case the referenced specification in Box 5 have currently a different issue and/or revision indicate also whether the test data deviates or not from such current documents.

Box 7

Must reference the report(s) supplied in support of the application.

Box 8

Should provide the details of procurement to the full ESCC System, documentation of all of which should already have been delivered to the ESCC Executive under the terms of the relevant Generic Specification. An appropriate table has been drawn in this box.

Box 9

If the PID evolved after the Original Qualification or after the last Extension of Qualification, adequate details of such evolution shall be provided together with the reasons for the changes. Major changes shall be clearly marked.

Box 10

Identify the current PID issue status, date and actual date of verification. The date of verification of the current PID should be arranged as close as possible to the required date of extension.

Box 11

This box can be completed only after a physical visit to the plant to confirm that no unexplained changes occurred and that the practices, procedures, material, etc. used in manufacturing the components are as described in the PID. This survey shall be carried out in accordance with the requirements of ESCC Basic Specification No. 20200 and its findings shall be recorded.

Box 12

Provide details of, or reference to, any Destructive Physical Analysis (DPA) and Failure Analysis reports as well as any Nonconformance(s) (NCCS) occurred during the qualification validity period, stating if established corrective action have produced satisfactory results.

Box 13

Enter only the name of the Executive Member (i.e., CNES, DLR, ESTEC, etc.) and the signature of the responsible Executive Coordinator.

Box 14

To be used when there is a need to expand any of the boxes from 1 through 12. Identify box affected and reference the Box 14 in the relevant Box. Box 14 can be broken into 14a, 14b, etc. if several boxes have to be expanded.

Box 15

Fill in Table as requested.

Box 16

Any additional action deemed necessary by the Executive Member to bring the submitted data to a standard likely to be accepted by the ESCC Executive should be listed herein or the reason(s) to accept the noncompliance.

Box 17

All Executive Manager recommendations on the application itself, special conditions or restrictions, modifications of the QPL or QML entry, letters to the manufacturer, etc. shall be entered clearly in Box 19, signed by the representative for ESA, and dated.

Box 18

Fill in Table as requested.

Box 19

Confidential Details of PID changes including those of a confidential nature, shall be provided.

Box 20

State noncompliance with reference to specification(s) and paragraph(s). To simplify reference in Box 16 each nonconformance shall be sequentially numbered. If relevant state 'None'.

Box 21

Any additional action deemed necessary by the Executive Member to bring the submitted data to a standard likely to be accepted by the ESCC Executive should be listed herein or the reason(s) to accept the noncompliance.

Box 22

Additional Comments.