

**Product MicroBridge – IDC
Cables**

Application Specification
114-94928-1
31 MAY 23 Rev 1

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Change History

| Change # | Change Description | Date (DE) |
|----------|--|------------|
| 01 | Started revision history | 07.04.2022 |
| 02 | Wire addition | 12.01.2023 |
| 03 | Title page adjustment | 02.03.2023 |
| 04 | Changed template closer to TE appearance while maintaining CAQ document numbers. All requirements and materials maintained w/o changes over predecesing issue with document # 074711. Wire addition FLU9Y. | 16.05.2023 |

A I 1. REFERENCE MATERIAL

A I 1.1. Revision Summary

Refer to above-written Change History.

A I 1.2. Notes, Terms and Abbreviations

ERNI is now an integral part of TE Connectivity (“TE”).

All processing strictly has to follow the on-hand Application Specification in order to ensure best results.

TE reserves the right to apply changes to this document without prior notice.

The Application Specification can be obtained by download from www.erni.com or www.TE.com. The edition on the website is the latest release and replaces all older versions. Make sure you regularly check there for more recent issues. If there is no Application Specification available online, please contact your local TE representative. This also applies to the Application Specification’s attachments which may change independently from the main Application Specification.

Products and product information in this document are meant to be informative in nature and do not imply any assurance of performance or product properties, like availability, qualification, approval, or fit for a certain application, if not stated explicitly. For binding information inquire directly with TE.

The visualizations in this document are of a schematical nature and have been adjusted for their respective purposes. For exact product representations please refer to product drawings and CAD models, which can be found on our website (www.erni.com or www.TE.com) or requested from TE directly.

All dimensions are specified in the unit millimeter (mm) if not explicitly stated otherwise.

“,” (comma) may be used as a decimal delimiter instead of “.” (period) in the course of this document and both are considered equal (2,1 = 2.1).

Six-digit numbers (now as TE numbers with a “-E” on their ends) represent TE ERNI part numbers in this document.

This document’s contents have been written in a clear and distinct context. Therefore, the specific product may not be named and PRODUCT or THE PRODUCT are used as placeholders.

A I 1.3. TE Specifications

This document constitutes an integral and essential part of
 114-94928 Application Specification “MicroBridge IDC” (formerly # 074709)

A I 2. OVERVIEW OF QUALIFIED WIRE MATERIALS PER VERSION OF RECEPTACLE CONNECTORS

MICROBRIDGE RECEPTACLE 90°

| Manufacturer | Cable | Nominal Conductor Cross-Section | Conductor Pull-Out Force |
|-----------------------------------|---|---------------------------------|--------------------------|
| Gebauer & Griller Kabelwerke GmbH | FLU7Y 0,35-A¹ according to factory standard K 6593 | 0,35 mm ² | ≥ 50N |
| Gebauer & Griller Kabelwerke GmbH | FLU2X 0,35sn-A² according to factory standard X 10255 | 0,35 mm ² | ≥ 50N |

¹ For details of the wire qualification refer datasheet dating 3.12.18: acc. to LV 112-1, class E, excepted abrasion of core at nominal cross section 0.35mm²

² Wire not qualified according to LV 112-1



| Manufacturer | Cable | Nominal Conductor Cross-Section | Conductor Pull-Out Force |
|-----------------------------------|---|---------------------------------|--------------------------|
| Gebauer & Griller Kabelwerke GmbH | FLU9Y 0,35sn-A³ according to factory standard X 10277 | 0,35 mm ² | ≥ 50N |

Table 1

MICROBRIDGE RECEPTACLE 180°

| Manufacturer | Cable | Nominal Conductor Cross-Section | Conductor Pull-Out Force |
|-----------------------------------|---|---------------------------------|--------------------------|
| Gebauer & Griller Kabelwerke GmbH | FLU7Y 0,35-A⁴ according to factory standard K 6593 | 0,35 mm ² | ≥ 50N |
| Leoni Kabel GmbH | Leoni MOCAR[®] U 180 E 0,35-A⁵ partnumber 760000OBA | 0,35 mm ² | ≥ 50N |

Table 2

NOTES

- The pull-out speed has to be limited to a maximum of 50 mm/min.
- A maximum of one cable per connector is allowed to be pulled out for inspection.

- Factory standards K6593 und K9149 refer to identical wire materials acc. to GuG.
- Partnumbers 76822214F und 760000OBA differ, acc. to Leoni, in production sites and respective supply chains. 76822214F has been discontinued.

- The above listed connector variants and associated wires do not mean all partnumbers (e. g. pin count), respectively connector/wire combinations, are fully qualified and approved by TE ERNI. For binding information on approvals always inquire TE ERNI.

³ Wire not qualified according to LV 112-1

⁴ For details of the wire qualification refer datasheet dating 3.12.18: acc. to LV 112-1, class E, excepted abrasion of core at nominal cross section 0.35mm²

⁵ For details of the wire qualification refer datasheet Version 1.0 dating 11.12.19: Nach/ acc. to: ISO 19642-3/2019-01; ISO 6722-1 2011-10