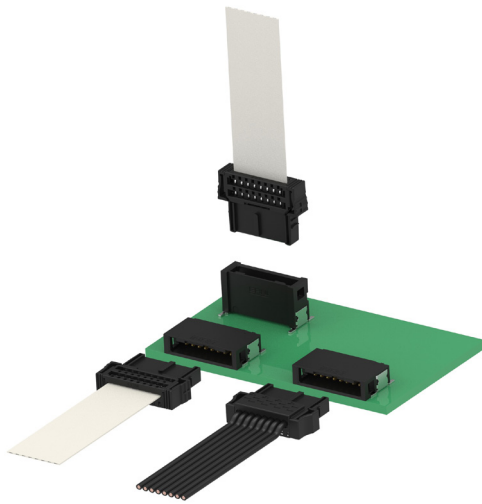




MicroBridge Flexfoil CONNECTOR

In addition to MicroBridge connector which is the Insulation Displacement Connection (IDC) design for wire to board application, TE Connectivity (TE) introduced another Flexfoil extension variance with piercing to foil technology – MicroBridge Flexfoil connector. MicroBridge Flexfoil female connector is for 180° outlet for foil. It is available in position 8, 14 and 20. They can be mated with the existing male connectors for PCB. It means the male connectors for PCB can be intermated with both female connectors for IDC version and Flexfoil version. MicroBridge Flexfoil connector can bring the value to both automotive and industrial application with lighter and more flexible connection than wire and cable.

APPLICATIONS

- Automotive – Carlight
- Roofline light
- Automotive – E Drive
- Battery pack

PRODUCT HIGHLIGHTS

SUPPORTING VARIANCE Flexfoil TYPES

MicroBridge Flexfoil connector can support both Flexible Flat Cable (FFC) and Flexible Printed Circuit Board (FPC) with variable copper thickness. TE has successfully evaluated a limited number of Flexfoil types together from major global Flexfoil suppliers.

PIERCING FOIL WHEN FEMALE CONNECTORS TERMINATED

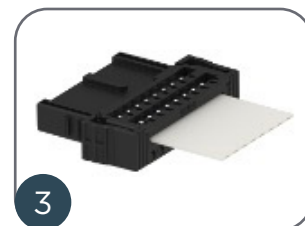
The Flexfoil is terminated by contacts integrated in the female connector. The conductors in the Flexfoil are pierced by the sharp structure of female contacts without any soldering process. TE has Flexfoil assembly machine to help termination in a simple way.



Insert the Flexfoil into the slot on the foil guide of connector



Press the foil guide with a tool or machine till the Flexfoil is fully terminated with the connector



Finished assembly of Flexfoil

MicroBridge Flexfoil Connector

POSSIBLE TO MATE WITH EXISTING MicroBridge MALE CONNECTOR

MicroBridge male connectors in both 90 degree (horizontal) version and 180 degree (vertical) version which were designed for IDC wire to board can be mated with Flexfoil female connector.

COMPLIANT TO SEVERITY 3 OF DYNAMIC LOAD TEST OF LV214

It meets the automotive applications the automotive applications. Details from product specification (Design Objective) 108-160848.

ELECTRICAL CPA (CONNECTOR POSITION ASSURANCE)

- The electrical CPA helps enable the testing of a secure contact between female and male connector already during the mating process
- The male connector uses a shortened test pin for the electrical CPA
- The shortened test pin is used exclusively for testing secure contacting. It also has no signal or current transfer function
- The electrical CPA is optional

KOSHIRI-SECURITY

- Additional tongues at the male and grooves at the female connector allow a pre-alignment and provide an exact mating procedure
- The male connector contact pins are not damaged during improper or skewed mating



MicroBridge Flexfoil CONNECTOR PERFORMANCE AND SPECIFICATIONS

PERFORMANCE

Series Item	MicroBridge Flexfoil
Pitch	1.27 mm
Rated voltage (max.)	63V Lower values will likely result from the Flexfoil and PCB used
Rated current (max.)	9 A at 20 °C 6 A at 90 °C 5.1 A at 105 °C 3.7 A at 125 °C Lower values will likely result from the Flexfoil used
Operating temperature	-40 °C ~ 150 °C Additional restrictions may result from the foil used

MATERIALS AND PLATING

Category	Material
Contact	Copper alloy
Plating in mating area	Contact area: PdNi + gold flash Piercing area on female: Tin
Plastic housing of male connector (PCB side)	Horizontal: LCP Vertical: PPA
Plastic housing of female connector (foil side)	PPA
Retention pin on the male connector	Copper alloy

PRODUCT SPECIFICATION AND INSTRUCTION SHEET

Product specification	108-160848
Application specification	114-160848
Industry documents	VW75174 (LV214) IEC 60352-6 USCAR21 UL 1977

MicroBridge Flexfoil CONNECTOR - 1.27 MM PITCH

CONFIGURATIONS



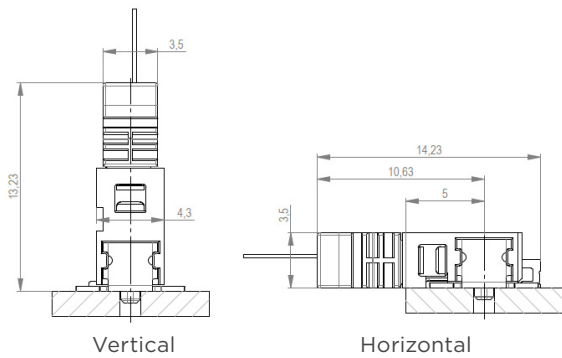
Pos.	Female connector	Board-mounting male header horizontal		Board-Mounting male header vertical	
8	544325-E	Standard	504285-E	Standard	504445-E
		eCPA	515094-E 524141-E		
14	544355-E	Standard	504315-E		
		eCPA	514496-E		
20	544385-E	Standard	514655-E		

RELATIVE PRODUCT INFORMATION

Performance & specifications...P2

MATED DIMENSIONS

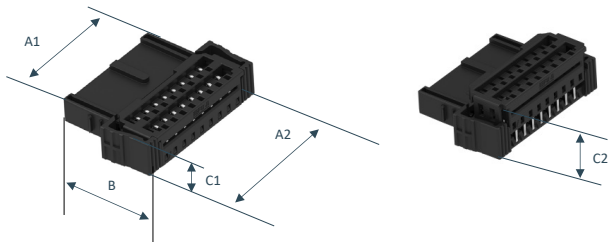
Units: mm



EXTERNAL DIMENSIONS

Units: mm

Female connector



Pos.	Part Number	Dimensions				
		A1	A2	B	C1 *	C2
8	544325-E	12.2	15.8	11.2	3.5	5.5
14	544355-E	19.8	23.4	11.2	3.5	5.5
20	544385-E	27.4	31.0	11.2	3.5	5.5

* External dimensions after foil assembled

MicroBridge Flexfoil Connector

Flexfoil ASSEMBLY MACHINE FOR MicroBridge Flexfoil CONNECTOR

Machine Part Numbers	Description	Functions
2499003-2	Flexfoil machine for MicroBridge Flexfoil connector	CCD
2499003-4	Flexfoil machine for MicroBridge Flexfoil connector	CCD, Cutting

Tooling kit Part Numbers	Description
2506863-1	Changeover Kit for 8P, for EPT-A3
2506863-2	Changeover Kit for 20P, for EPT-A3



* Select One machine and One tooling kit at least.



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