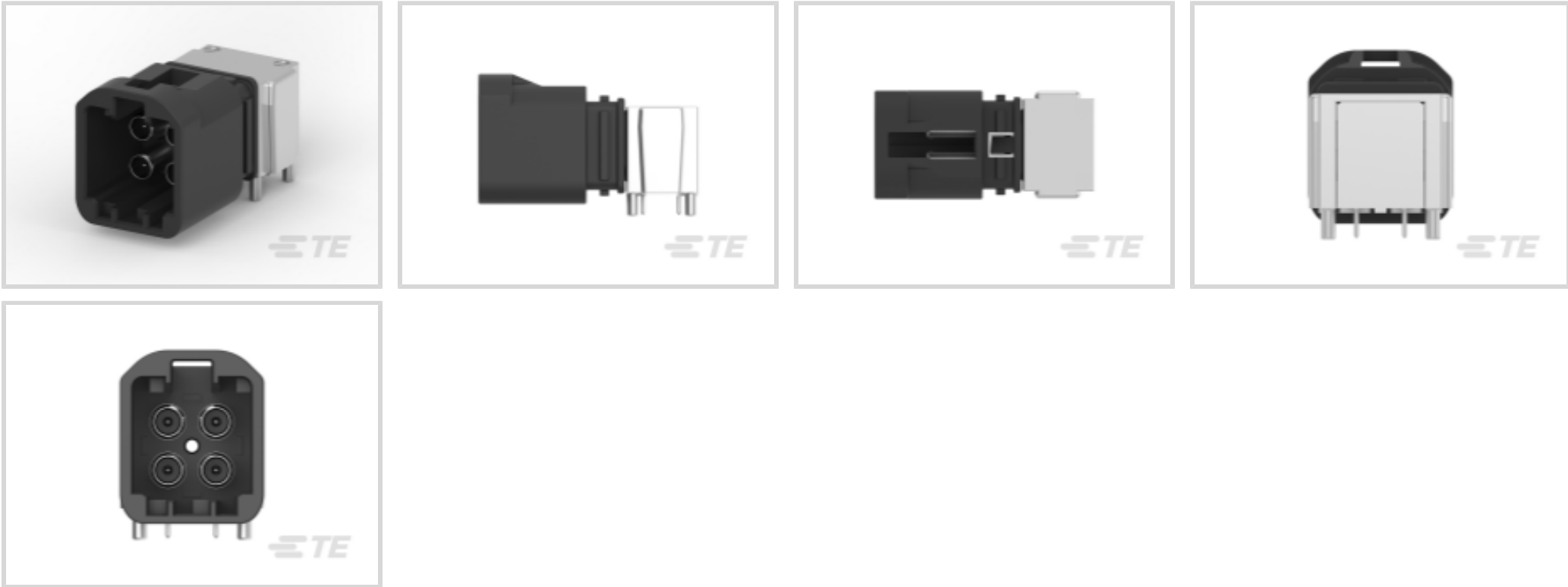




MATE-AX

TE Internal #: 2304168-1
A, Wire-to-Board, 4 Position, 4 mm [.157 in] Centerline, Shielded,
Horizontal, Signal, Board Mount, MATE-AX, Data Connectivity
Headers
[View on TE.com >](#)

Connectors > Automotive Connectors > Data Connectivity Systems > Data Connectivity Headers



Mating Pin Diameter: .4 mm [.016 in]
Connector & Keying Code: A
Connector System: Wire-to-Board
Number of Positions: 4
Centerline (Pitch): 4 mm [.157 in]

Features

Product Type Features

Mixed & Hybrid Connector	No
Connector & Contact Terminates To	Printed Circuit Board
Connector System	Wire-to-Board
Sealable	No

Configuration Features

Number of Positions	4
PCB Mount Orientation	Horizontal

Electrical Characteristics

Impedance	50 Ω
Operating Voltage	60 VDC

Signal Characteristics

Operating Frequency Range	10 – 9000 MHz
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Body Features

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PCB Retention Feature Plating Material	Tin
Connector & Keying Code	A

Contact Features

Center Contact	With
Contact Type	Pin
Contact Mating Area Plating Material	Silver
RF Connector Center Contact Plating Material	Silver (Ag)
Mating Pin Diameter	.4 mm[.016 in]
Contact Current Rating (Max)	3 A

Termination Features

Termination Method to PCB	Through Hole - Solder
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Mechanical Attachment

Mating Retention	With
Connector Mounting Type	Board Mount

Housing Features

Housing Color	Jet Black
Centerline (Pitch)	4 mm[.157 in]

Dimensions

Connector Height	14.4 mm[.567 in]
Product Width	12 mm[.472 in]
Product Length	24.3 mm[.957 in]

Usage Conditions

Operating Temperature (Max)	65 °C, 70 °C, 75 °C, 80 °C, 85 °C, 90 °C, 100 °C, 105 °C[149 °F][158 °F][167 °F][176 °F][185 °F][194 °F][212 °F][221 °F]
Operating Temperature Range	-40 – 105 °C[-40 – 221 °F]

Operation/Application

Solder Process	Reflow Solder
Assembly Process Feature	Board Standoff
Shielded	Yes
Circuit Application	Signal

Packaging Features

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Packaging Method	Reel
Other	
Interface Number	208-18131
Outer Contact Plating Material	Tin (Sn)
Dielectric Material	LCP

Product Compliance

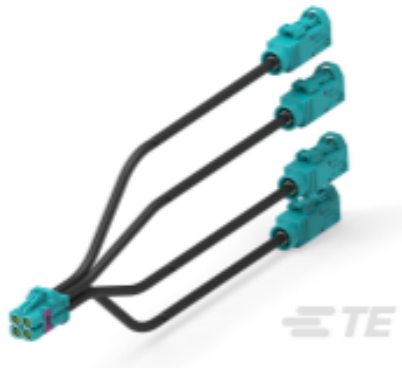
[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
Halogen Content	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
Solder Process Capability	Not reviewed for solder process capability

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) ‘Guidance on requirements for substances in articles’ posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Compatible Parts



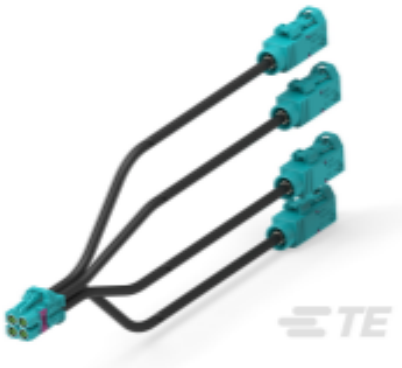
TE Part # 1-2360001-1
MATE-AX/FAKRA II, CABLE ASSY



TE Part # 1-2360001-2
MATE-AX/FAKRA II, CABLE ASSY



TE Part # 1-2360001-3
MATE-AX/FAKRA II, CABLE ASSY



TE Part # 1-2360001-4
MATE-AX/FAKRA II, CABLE ASSY



TE Part # 2360000-1
MATE-AX/FAKRA II, CABLE ASSY



TE Part # 2360001-1
MATE-AX/FAKRA II, CABLE ASSY



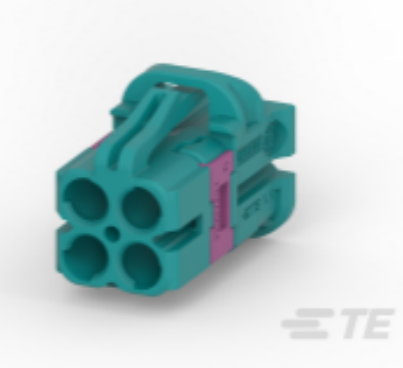
TE Part # 2360001-2
MATE-AX/FAKRA II, CABLE ASSY



TE Part # 2360001-3
MATE-AX/FAKRA II, CABLE ASSY



TE Part # 2360001-4
MATE-AX/FAKRA II, CABLE ASSY



TE Part # 2298721-9
4P, MATE-AX, SOC HSG ASSY, 180DEG,
COD Z



TE Part # 2298418-2
MINI COAX, HEADER HSG,
SHIELDING TUBE



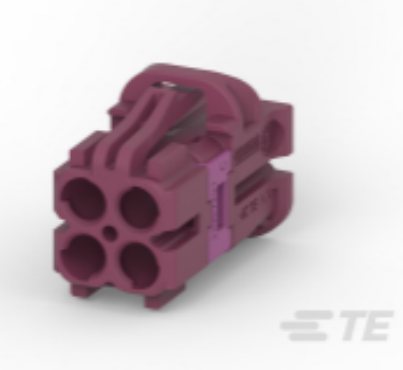
TE Part # 2298721-1
4P, MATE-AX, SOC HSG ASSY, 180DEG,
COD A



TE Part # 2298721-2
4P, MATE-AX, SOC HSG ASSY, 180DEG,
COD B



TE Part # 2298721-3
4P, MATE-AX, SOC HSG ASSY, 180DEG,
COD C



TE Part # 2298721-4
4P, MATE-AX, SOC HSG ASSY, 180DEG,
COD D

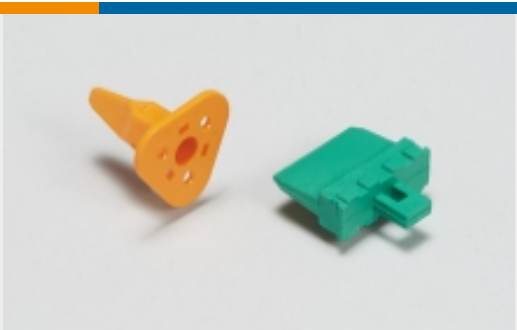


TE Part # 2298721-6
4P, MATE-AX, SOC HSG ASSY, 180DEG,
COD F



TE Part # 2298721-5
4P, MATE-AX, SOC HSG ASSY, 180DEG,
COD E

Also in the Series | **MATE-AX**



Automotive Connector Locks & Position Assurance(1)



Automotive Terminals(8)



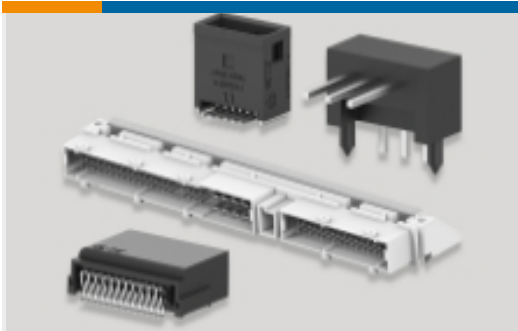
Crimp Wire Pins, Tabs & Ferrules(2)



Data Connectivity Headers(23)



Data Connectivity Housings(30)



PCB Headers & Receptacles(1)

Customers Also Bought



TE Part #2305987-2
2-PORT MATENET HDR ASSY 90DEG, COD B



TE Part #2-2188220-1
020/060 56P HDR ASSY(CODE A)



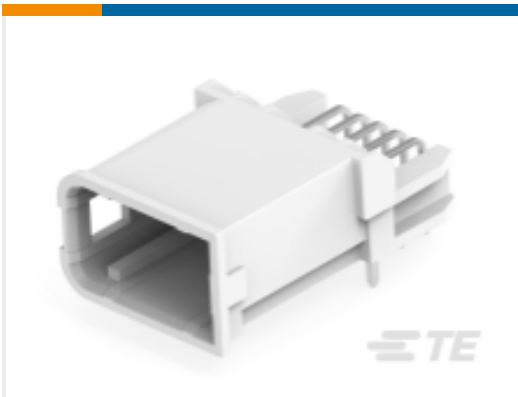
TE Part #2286546-3
HSD,HDR ASSY,90DEG,COD C



TE Part #2300292-1
10POS,TAB0.5X0.4,HDR ASSY,90DEG, COD B



TE Part #2320201-1
1-PORT MATENET HDR ASSY, 90DEG, COD A



TE Part #2331207-2
10POS,TAB0.5X0.4,HDR ASSY,90DEG, COD B



TE Part #3-1318853-3
025 24POS CAP ASSY H SELECTIVE-TIN



TE Part #3-2188220-1
020/060 56P HDR ASSY(CODE B)



TE Part #4-2188220-2
020/060 56P HDR ASSY(CODE C)



TE Part #5-2188220-3
020/060 56P HDR ASSY(CODE D)

Documents



Product Drawings

4P MATE-AX, HDR ASSY,90 DEG,COD A

German

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2304168-1_B.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2304168-1_B.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2304168-1_B.3d_stp.zip

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Product Specifications

Application Specification

English