



YMT

(YAZAKI MECHANICAL-LOCKING TERMINAL)

1.2 & 2.8 CONNECTOR SERIES

INTRODUCTION

YMT 1.2 & 2.8

CONNECTOR SERIES

How is Yazaki addressing the need for more circuits inside passenger cars under the condition of limited space? The answer is the latest member of the Yazaki Mechanical Terminal Connector series: The YMT 1.2 connector family! The YMT 1.2 NWP connector series reduces the size up to 25% compared to 1.5 mm systems on the market.

A whole series of male and female connectors, headers and applicable terminals is available. The 1.2 mm connector cavity is suitable for a wire cross-section range from 0.13 mm² up to 1.5 mm². The larger 2.8 mm cavity can be used with a wire cross section up to 4.0 mm² for 2.8 mm terminals.

The unsealed connector portfolio ranges from 2 to 14-pol male and female connectors to support device and inline applications. The YMT 1.2 series is extended by YMT 2.8 connectors housings, based on the same design concept. The connectors come with a proven pre-assembled secondary locking design and connector position assurance (CPA). During the design of the connectors, future automatization of the wire harness was anticipated, and the connectors were designed to allow automatic terminal insertion.

Specification

Validation specification	PSA Spec. (B21 7050 Rev. D)
Sealing class	S1 (unsealed)
Vibration class	V1 (chassis profile / 3G acc. B21 7120)
Temperature class	T2 (-40 – 100°C)
Terminal retention force min. (primary locking) / (primary & secondary locking)	1.2 CB: 50 N / 100 N 2.8 LL: 50 N / 100 N
Connector to connector mating force max.	< 50 N
Material connectors	PBT-GF+MD
Clip feature	Panel lock, acc. to PSA reference 9615326199
Material headers	PPA-HI-GF16
Terminal removal tool	See handling manual YPES-15-1664E
Terminal Derating	See product standard: 1.2 YPES-11-04-292E
Terminal pitch	Horizontal: 1.2-1.2: 3.50 mm / 1.2-2.8: 4.50 mm / 2.8-2.8: 5.50 mm Vertical: 4.65 mm

YMT / YCO 1.2 SERIES TERMINALS

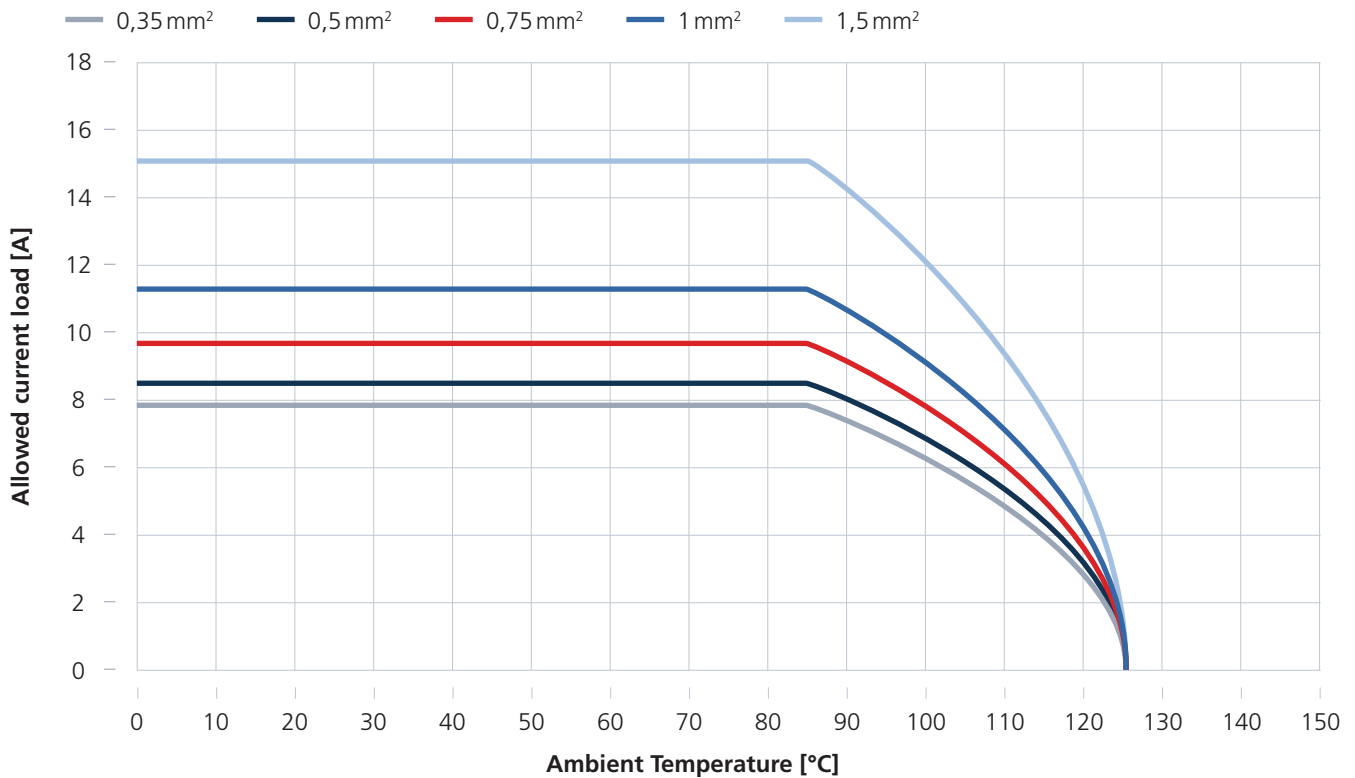
Highlights

- ▶ YMT 1.2 CB Female terminals for 0.35 to 1.5 mm² in Sn, Ag & Au plating
- ▶ YCO 1.2 CB Male & Female terminals for 0.13 to 1.5 mm² in Sn plating



Derating Curve 1.2 mm

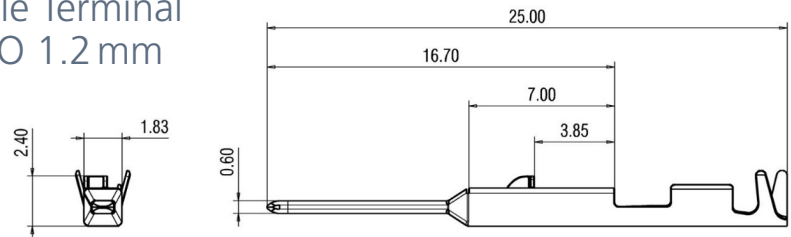
Terminals Free in Air – Sn plating.



YMT 1.2 CB derating for reference only, see product standard YPES-11-04-292E for additional derating information; for YCO 1.2 terminal derating, please contact the Yazaki Technical Support

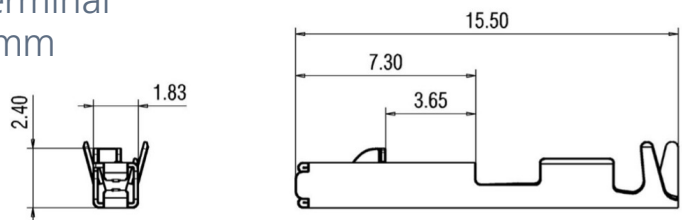
YMT / YCO 1.2 MM TERMINALS

Male Terminal
YCO 1.2 mm



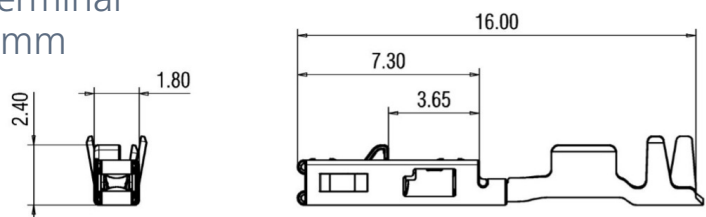
Part Number	Series	Wire Range [mm ²]	Material	Plating
7195-1370-02	YCO 1.2 mm Male	0.13	Bronze	Sn
7195-1371-02		0.35-0.50		
7195-1372-02		0.75-1.0		
7195-1373-02		1.5		

Female Terminal
YCO 1.2 mm



Part Number	Application	Wire Range [mm ²]	Material	Plating
7196-1366-02	YCO 1.2 mm Female	0.13	Cu Alloy	Sn
7196-1367-02		0.35-0.50		
7196-1368-02		0.75-1.0		
7196-1369-02		1.5		

Female Terminal
YMT 1.2 mm



Part Number	Application	Wire Range [mm ²]	Material	Plating
7216-7629-02	YMT 1.2 mm CB Female	0.35	Cu Alloy / Stainl. Steel	Sn
7216-7629-06		0.35		Ag
7216-7629-08		0.35		Au
7216-7630-02		0.50-0.75		Sn
7216-7630-06		0.50-0.75		Ag
7216-7630-08		0.50-0.75		Au
7216-7631-02		1.0-1.5		Sn
7216-7631-06		1.0-1.5		Ag
7216-7631-08		1.0-1.5		Au

YMT 2.8 MM TERMINALS

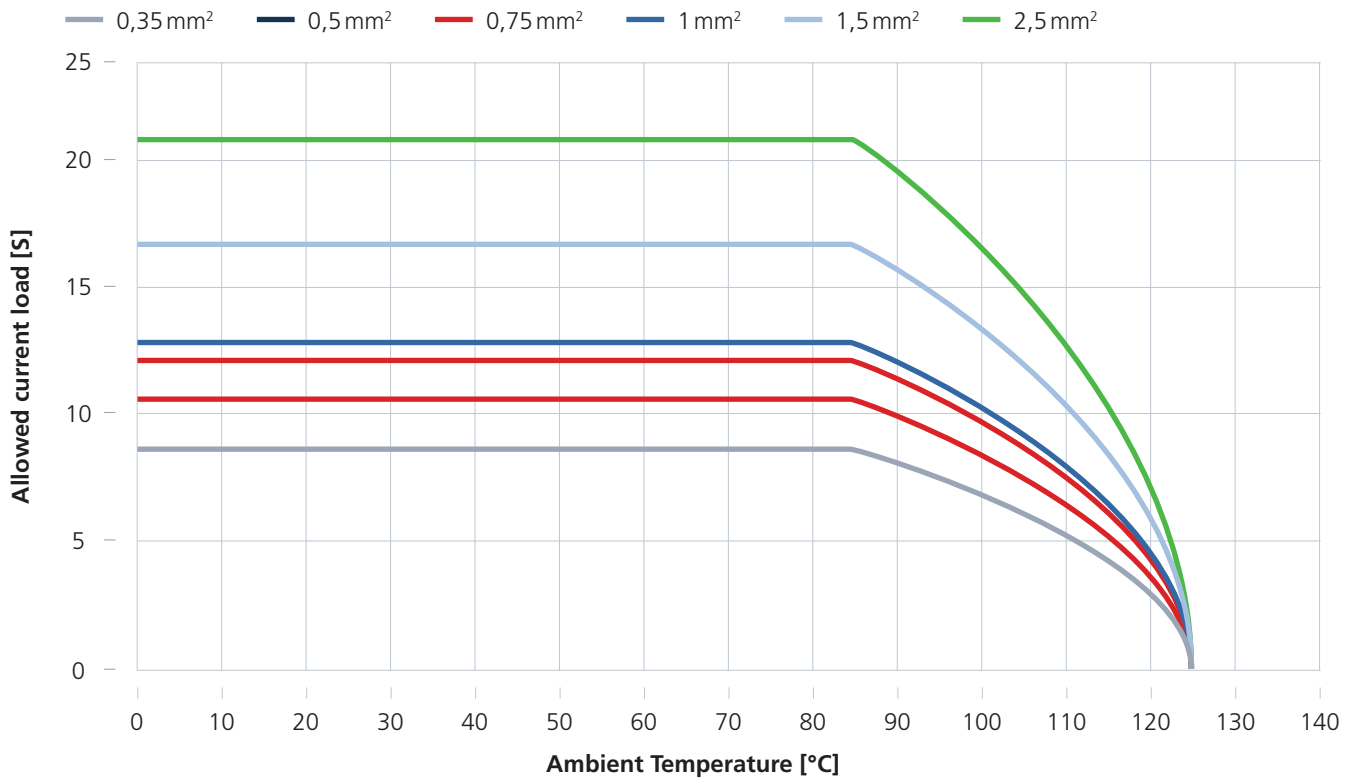
Highlights

- ▶ YMT 2.8 Female terminals for 0.35 to 2.5 mm² in Sn, Ag & Au plating



Derating Curve 2.8 mm

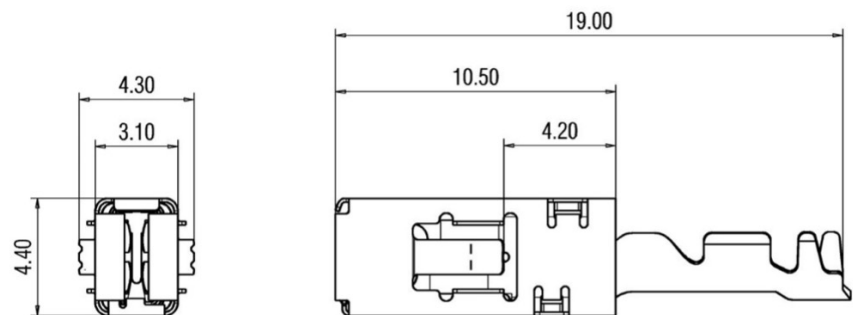
Terminals Free in Air – Sn plating.



YMT 2.8 derating for reference only, see product standard for additional derating information

YMT 2.8 MM TERMINALS

Female Terminal 2.8 mm

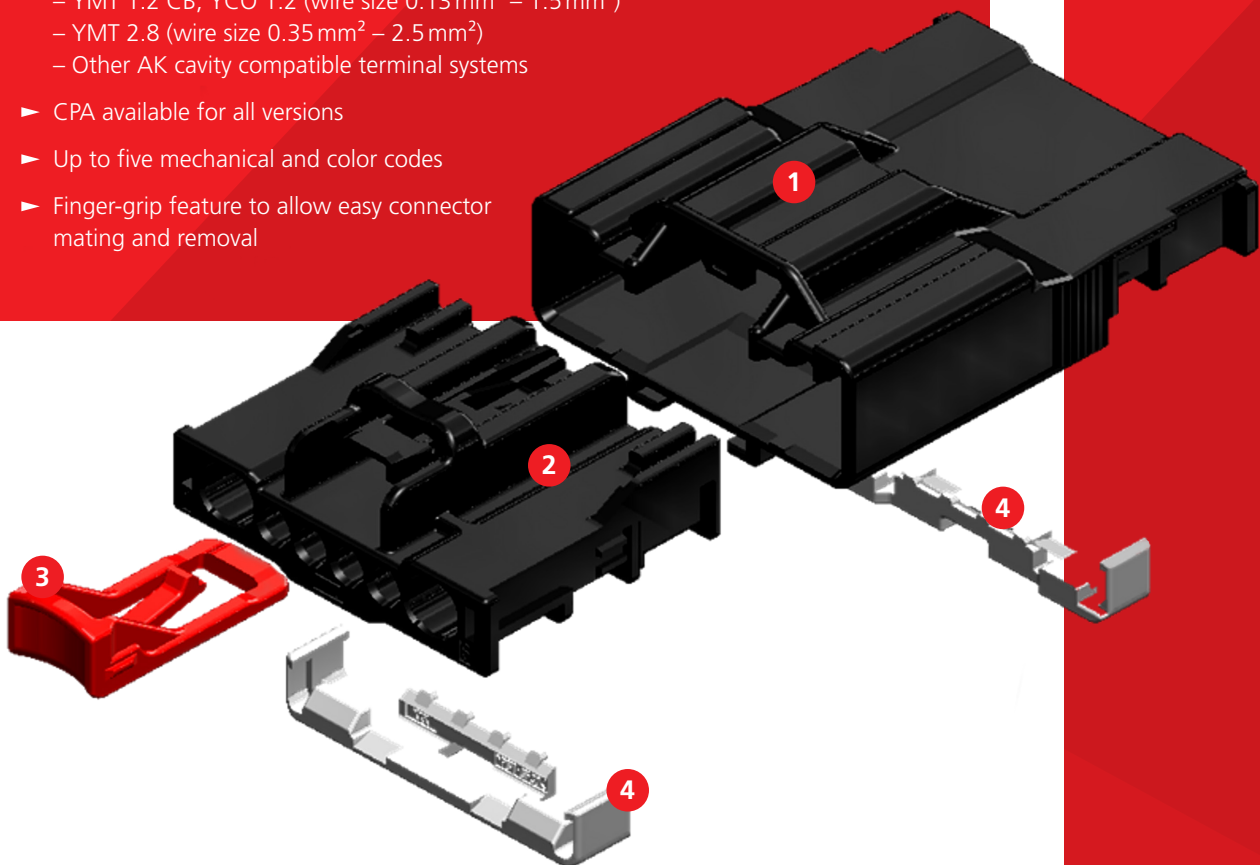


Part Number	Series	Wire Range [mm ²]	Material	Plating
7196-0078-02	YMT 2.8 mm Female	0.35	Cu Alloy / Stainl. Steel	Sn
7196-0078-06		0.35		Ag
7196-0078-08		0.35		Au
7196-0079-02		0.50 – 1.0		Sn
7196-0079-06		0.50 – 1.0		Ag
7196-0079-08		0.50 – 1.0		Au
7196-0080-02		1.50 – 2.50		Sn
7196-0080-06		1.50 – 2.50		Ag
7196-0080-08		1.50 – 2.50		Au

YMT 1.2 / 2.8 CONNECTORS

Highlights


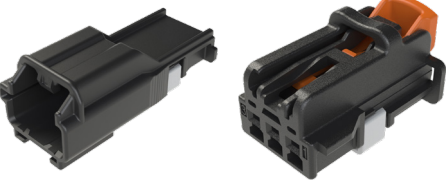
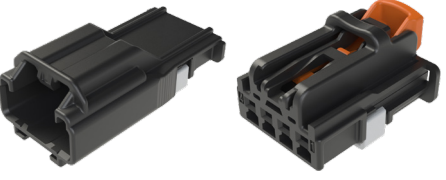
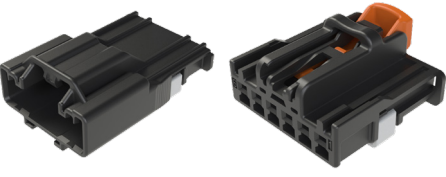
- ▶ Miniaturized unsealed solution for passenger compartment and HV-battery sensing applications
- ▶ Wide wire size ranges from 0.13 mm² – 4.0 mm²
- ▶ Robust housing design with Yazaki's proven pre-assembled side spacers
- ▶ Connector housings from 2P to 14P
- ▶ Hybrid versions available with YMT 2.8 mm terminals
- ▶ Interfaces for 2P to 14P defined by Yazaki
- ▶ AK – YMT 1.2 CB and YMT 2.8 Lance unsealed terminal based system:
 - YMT 1.2 CB; YCO 1.2 (wire size 0.13 mm² – 1.5 mm²)
 - YMT 2.8 (wire size 0.35 mm² – 2.5 mm²)
 - Other AK cavity compatible terminal systems
- ▶ CPA available for all versions
- ▶ Up to five mechanical and color codes
- ▶ Finger-grip feature to allow easy connector mating and removal



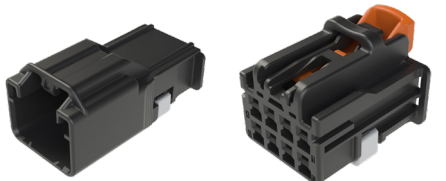
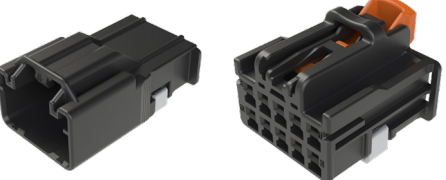
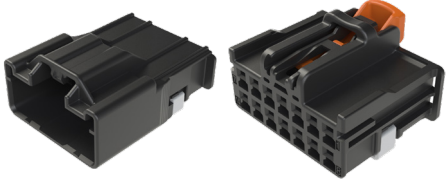
- 1 Male housing
- 2 Female housing
- 3 CPA
- 4 Secondary lock

YMT 1.2 / 2.8 CONNECTORS

Connector Part Numbers 1.2 Terminal One Row

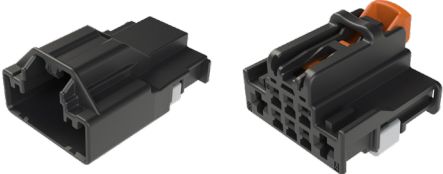
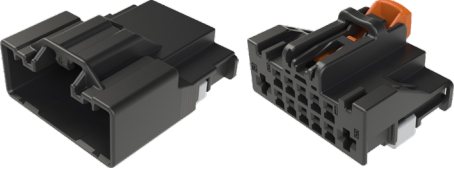
Code	No. of Poles	Male connector	Female Connector with CPA*	Interface	Image
A	2	7288-7817-30	7289-7812-30	Yazaki unique	
B	2	7288-7818-60	7289-7813-60		
C	2	7288-7819-90	7289-7814-90		
D	2	7288-7820-80	7289-7815-80		
N	2	7288-7816-20	7289-7811-20		
A	3	7288-7832-30	7289-7822-30	Yazaki unique	
B	3	7288-7833-60	7289-7823-60		
C	3	7288-7834-90	7289-7824-90		
D	3	7288-7835-80	7289-7825-80		
N	3	7288-7831-20	7289-7821-20		
A	4	7288-7842-30	7289-7837-30	Yazaki unique	
B	4	7288-7843-60	7289-7838-60		
C	4	7288-7844-90	7289-7839-90		
D	4	7288-7845-80	7289-7840-80		
N	4	7288-7841-20	7289-7836-20		
A	6	7288-7775-30	7289-7770-30	Yazaki unique	
B	6	7288-7776-60	7289-7771-60		
C	6	7288-7777-90	7289-7772-90		
D	6	7288-7778-80	7289-7773-80		
N	6	7288-7774-20	7289-7769-20		

Connector Part Numbers 1.2 Terminal Two Row

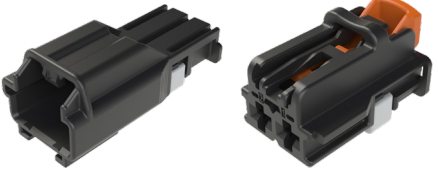


Code	No. of Poles	Male connector	Female Connector with CPA*	Interface	Image
A	8	7288-7797-30	7289-7785-30	Yazaki unique	
B	8	7288-7798-60	7289-7786-60		
C	8	7288-7799-90	7289-7787-90		
D	8	7288-7800-80	7289-7788-80		
N	8	7288-7796-20	7289-7784-20		
A	10	7288-7765-30	7289-7760-30	Yazaki unique	
B	10	7288-7766-60	7289-7761-60		
C	10	7288-7767-90	7289-7762-90		
D	10	7288-7768-80	7289-7763-80		
N	10	7288-7764-20	7289-7759-20		
A	14	7288-7807-30	7289-7802-30	Yazaki unique	
B	14	7288-7808-60	7289-7803-60		
C	14	7288-7809-90	7289-7804-90		
D	14	7288-7810-80	7289-7805-80		
N	14	7288-7806-20	7289-7801-20		

*Female connector without CPA on request

Connector Part Numbers Hybrid (1.2+2.8 terminal)

Code	No. of Poles	Male connector	Female Connector with CPA*	Interface	Image
A	8	7288-7910-30	7289-7904-30	Yazaki unique	
B	8	7288-7911-60	7289-7905-60		
C	8	7288-7912-90	7289-7906-90		
D	8	7288-7913-80	7289-7907-80		
N	8	7288-7909-20	7289-7908-20		
A	12	7288-9365-30	7289-9370-30	Yazaki unique	
B	12	7288-9366-60	7289-9371-60		
C	12	7288-9367-90	7289-9372-90		
D	12	7288-9368-80	7289-9373-80		
N	12	7288-9364-20	7289-9369-20		

Connector Part Numbers 2.8 Terminal

Code	No. of Poles	Male connector	Female Connector with CPA*	Interface	Image
A	2	7288-7873-30	7289-7858-30	Yazaki unique	
B	2	7288-7874-60	7289-7859-60		
C	2	7288-7875-90	7289-7860-90		
D	2	7288-7876-80	7289-7861-80		
N	2	7288-7872-20	7289-7857-20		
A	4	On request	7298-1175-30	Yazaki unique	
B	4		7298-1176-60		
C	4		7298-1177-90		
D	4		7298-1178-80		
N	4		7298-1179-20		
A	6	On request	7298-1170-30	Yazaki unique	
B	6		7298-1171-60		
C	6		7298-1172-90		
D	6		7298-1173-80		
N	6		7298-1174-20		

*Female connector without CPA on request

YMT HEADERS

Highlights





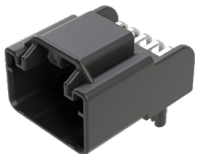

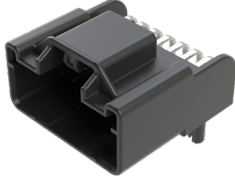
- ▶ Unsealed solution for passenger compartment signal and power current applications
- ▶ Suitable for THT (Through Hole Technology) and THT&R (Through Hole Technology Reflow compatible)
- ▶ Available with 1.2 and 2.8 tabs or Hybrid
- ▶ PCB fastening by clip retainer or solid post
- ▶ Up to five mechanical and color codes available
- ▶ Yazaki defined interface for unsealed application
- ▶ 90° and 180° PCB mounted version available
- ▶ Serves pin count needs from 2 up to 14 positions
- ▶ Additional configurations and variants can be developed upon request



1 10P 1.2 90° Header

2 6P 1.2 180° Header

Header Part Numbers*

Code	No. of Poles	Header 90°	Header 180°	Female Connector with CPA	Image	
A	4x1.2	7225-4360-30	7225-4366-30	7289-7837-30	 	
B	4x1.2	7225-4361-60	7225-4367-60	7289-7838-60		
C	4x1.2	7225-4362-90	7225-4368-90	7289-7839-90		
D	4x1.2	7225-4364-80	7225-4369-80	7289-7840-80		
N	4x1.2	7225-4359-20	7225-4365-20	7289-7836-20		
A	6x1.2	On request	7225-4370-30	7289-7770-30	 	
B	6x1.2		7225-4371-60	7289-7771-60		
C	6x1.2		7225-4372-90	7289-7772-90		
D	6x1.2		7225-4373-80	7289-7773-80		
N	6x1.2		7225-4374-20	7289-7769-20		
A	10x1.2	7297-6802-30	7288-8945-30	7289-7760-30	 	
B	10x1.2	7297-6804-60	7288-8946-60	7289-7761-60		
C	10x1.2	7297-6805-90	7288-8947-90	7289-7762-90		
D	10x1.2	7297-6806-80	7288-8948-80	7289-7763-80		
N	10x1.2	7297-6811-20	On request	7289-7759-20		
A	14x1.2	7225-4172-30	On request	7289-7802-30	 	
B	14x1.2	7225-4173-60		7289-7803-60		
C	14x1.2	7225-4174-90		7289-7804-90		
D	14x1.2	7225-4175-80		7289-7805-80		
N	14x1.2	7225-4176-20		7289-7801-20		

* All other versions (from 2P to 14P, 90°/ 180°/ hybrid versions) of headers upon request.

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To verify product information, please contact Technical Sales Support team.



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Quotation



Sample Order



Version
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