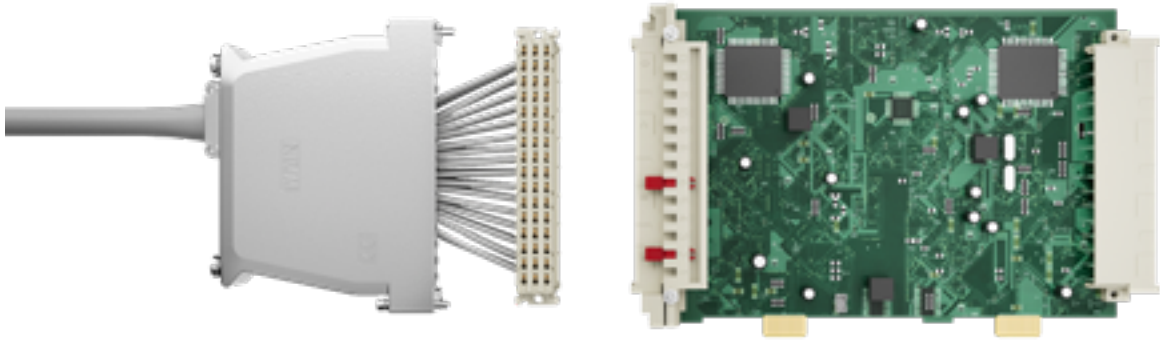


PCB Connector



WAIN VME 64X Series

Product Model Naming Rules:

WB01F - 160 - MSHT/C1 - 5.0 - B0XX

► **Reserved Number:**

Customer Special Code, etc

► **Straight pins:**

Identified by length (e.g., 4.5 = pin length 4.5mm).

► **Pins with bends:**

This coding does not apply (unless specified for special models).

► **Performance Level:**

1: Performance Level:1

2: Performance Level:2

3: Performance Level:3

D: 15U

E: 30U

F: 50U

► **C: Fixed Clamp**

N: No Flange

► **Termination Methods:**

T: Soldering

B: Welding tab

C: Crimping

W: Winding

F: Faston

P: Press-fit

I: Insulation Displacement

R: Press-fit with rear insertion

S: SMT

M: Hybrid

► **SH:90°**

TH:180°

TM: SMT 180°

► **Contact: M; Socket: F**

► **Number of Contacts:**

016, 032, 048, 064, 096, 112, 128, 144, 160, etc.

► **Types:** B Type / C Type / D Type / E Type / F Type / G Type / H Type / M Type / Q Type / R Type / S Type / T Type / U Type, etc.

► **Standard Types:**

01: DIN41612 (IEC 60603)

02: IEC 61076-4-101

03: IEC 61076-4-113

► **PCB**

► **WAIN**

Definition of VME Bus

The VME (Versa Module Eurocard) bus is a high-speed, reliable industrial control bus widely used in medical devices, communication equipment, aerospace, and other fields. The VME bus adopts a modular design, allowing for flexible expansion while also offering strong compatibility and interoperability.

The VME bus emerged in the 1980s and became one of the most popular industrial buses, followed by hundreds of manufacturers. Although new bus systems, driven by rapid advances in chip technology, have emerged, the VME bus remains a standard for durability and reliability, providing fundamental benefits to users.

It is particularly suitable for real-time operations, where unforeseen events must be continuously addressed, and finely graded program interruption schemes and variable priority control need to be managed at any moment.

With ongoing performance developments, even the long-proven three-row DIN41612 connectors have reached their limits, making it necessary to extend the VME standard.

VME bus connectors have played a critical role in extending the VME structure to 64-bit architecture and supporting data transmission rates of up to 160 MB/s (VME 64x) through the development of new backward-compatible 160-pin connectors.



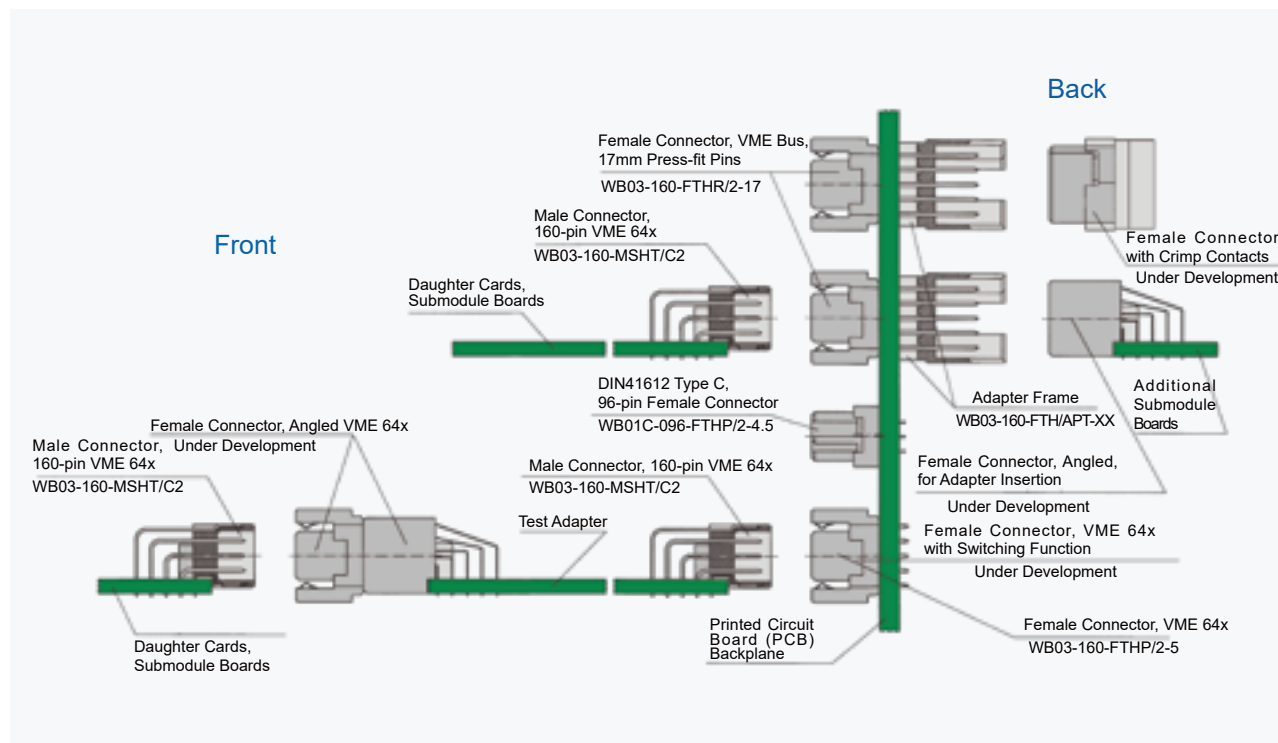
Application Fields:

The VME 64x series connectors feature a modular design, allowing for flexible expansion, while also offering strong compatibility and interoperability. The single-board design integrates components such as processors, memory, and input/output interfaces, making it suitable for high-reliability applications in industries such as rail transportation, medical, industrial control, aerospace, and semiconductors.

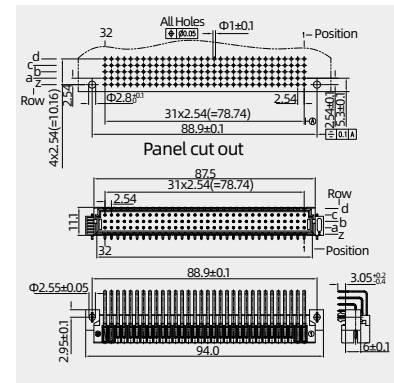


WAIN VME 64X Series

Specification Description



Specifications / Approvals			
Specifications		IEC 61076-4-113	
Insert		Contacts	
Number of Contacts	160	Termination method	Wave Soldering, Reflow Soldering
Contact Rows	5	Contact Resistance	Row a, b, c ≤ 20mΩ;
Contact Spacing	2.54mm		Row z, d ≤ 30mΩ
Rated Current	1A	Material	Copper Alloy
Test Voltage	1.0kV	Surface Treatment	Selective Gold Plating
Insulation Resistance	>10 ¹⁰ Ωaa		
Material flammability class acc. to UL 94	V0		
Material	Liquid Crystal Polymer (LCP)		
Color	RAL 7032 (Pebble Gray)		
Operating Temperature Range	-55°C ...+125°C		
Performance Level	2		
Insertion and Withdrawal Force	≤160 N		
PCB Thickness	1.6mm±0.2		
PCB Mounting Method	With fixing flange, with press-fit hook		

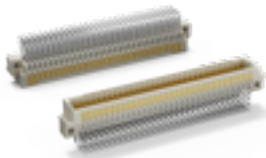


WAIN VME 64X Series

Technical Specifications

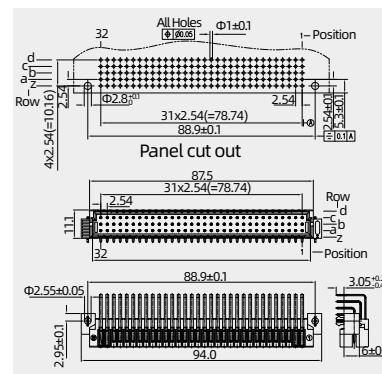
Specifications / Approvals			
Specifications		IEC 61076-4-113	
Insert		Contacts	
Number of Contacts	160	Termination method	Wave Soldering, Reflow Soldering
Contact Rows	5	Contact Resistance	Row a, b, c ≤ 20mΩ;
Contact Spacing	2.54mm		Row z, d ≤ 30mΩ
Rated Current	1A	Material	Copper Alloy
Test Voltage	1.0kV	Surface Treatment	Selective Gold Plating
Insulation Resistance	>10 ¹⁰ Ωaa		
Material flammability class acc. to UL 94	V0		
Material	Liquid Crystal Polymer (LCP)		
Color	RAL 7032 (Pebble Gray)		
Operating Temperature Range	-55°C ...+125°C		
Performance Level	2		
Insertion and Withdrawal Force	≤160 N		
PCB Thickness	1.6mm±0.2		
PCB Mounting Method	With Fixing Flange		

160-PIN Male Connector
(with Fixing Clamp)



Description	Designation	Order Number
-------------	-------------	--------------

	WB03-160-MSHT/2	141 021 600 0004
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WAIN VME 64X Series

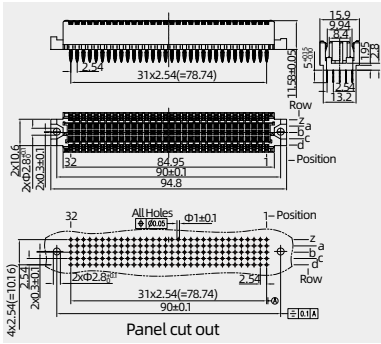
Technical Specifications

Specifications / Approvals			
Specifications		IEC 61076-4-113	
Insert		Contacts	
Number of Contacts	160	Termination method	Crimp Connection
Contact Rows	5	Contact Resistance	Row a, b, c ≤ 20mΩ;
Contact Spacing	2.54mm		Row z, d ≤ 30mΩ
Rated Current	1A	Material	Copper Alloy
Test Voltage	1.0kV	Surface Treatment	Selective Gold Plating
Insulation Resistance	>10 ¹⁰ Ωa		
Material flammability class acc. to UL 94	V0		
Material	Liquid Crystal Polymer (LCP)		
Color	RAL 7032 (Pebble Gray)		
Operating Temperature Range	-40°C ...+105°C		
Performance Level	2		
Insertion and Withdrawal Force	≤160 N		
PCB Thickness	1.6mm±0.2		
PCB Mounting Method	With Fixing Flange		

160-PIN Press-fit Female
Connector 5.0 (with Flange)



Description	Designation	Order Number
	WB03-160-FTHP/2-5	141 021 600 0002



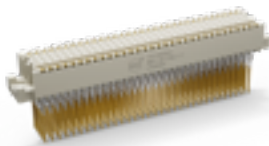
WAIN VME 64X Series

Technical Specifications

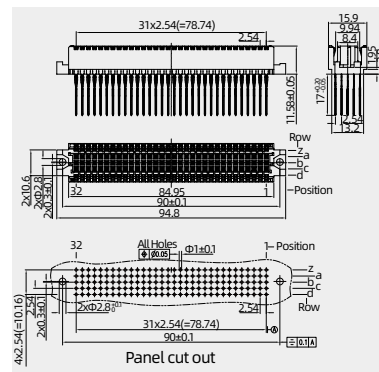
Specifications / Approvals	
Specifications	IEC 61076-4-113
Insert	
Number of Contacts	160
Connection Length	17mm
Contact Rows	5
Contact Spacing	2.54mm
Rated Current	1A
Test Voltage	1.0kV
Insulation Resistance	$>10^{10}\Omega\text{aa}$
Material flammability class acc. to UL 94	V0
Material	Liquid Crystal Polymer (LCP)
Color	RAL 7032 (Pebble Gray)
Operating Temperature Range	-40°C ... +105°C
Performance Level	2
Insertion and Withdrawal Force	$\leq 160\text{ N}$
PCB Thickness	1.6mm ± 0.2
PCB Mounting Method	With Fixing Flange
Contacts	
Termination method	Crimp Connection
Contact Resistance	Row a, b, c $\leq 20\text{m}\Omega$; Row z, d $\leq 30\text{m}\Omega$
Material	Copper Alloy
Surface Treatment	Selective Gold Plating

PCB

160-PIN Fish-eye Female
Connector 17.0



Description	Designation	Order Number
	WB03-160-FTHR/2-17	141 021 600 0003



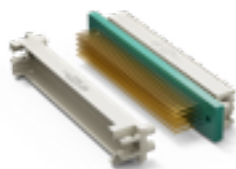
WAIN VME 64X Series

Technical Specifications

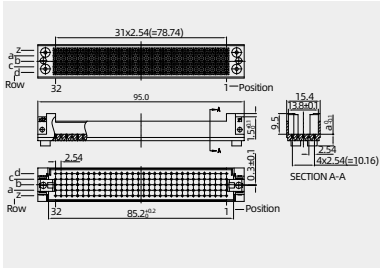
Standards/Certifications	
Standard	IEC 61076-4-113
Insert	
Material	Liquid Crystal Polymer (LCP)
Color	RAL 7032 (Pebble Gray)
Material flammability class acc. to UL 94	V0

PCB

160-PIN Female Adapter Frame



Description	Designation	Order Number
	WB03-160-FTH/APT-5.4	141 020 000 0005



Part Code	Part NO.	Thickness	a(-0.1)
WB03-160-FTH/APT-7.8	141 020 000 0009	1.6±0.3	7.8
WB03-160-FTH/APT-7.2	141 020 000 0008	2.2±0.3	7.2
WB03-160-FTH/APT-6.6	141 020 000 0007	2.8±0.3	6.6
WB03-160-FTH/APT-6	141 020 000 0006	3.4±0.3	6.0
WB03-160-FTH/APT-5.4	141 020 000 0005	4.0±0.3	5.4
WB03-160-FTH/APT-4.8	141 020 000 0004	4.6±0.3	4.8
WB03-160-FTH/APT-4.2	141 020 000 0003	5.2±0.3	4.2
WB03-160-FTH/APT-3.6	141 020 000 0002	5.8±0.3	3.6
WB03-160-FTH/APT-3	141 020 000 0001	6.4±0.3	3.0

WAIN VME 64X Series

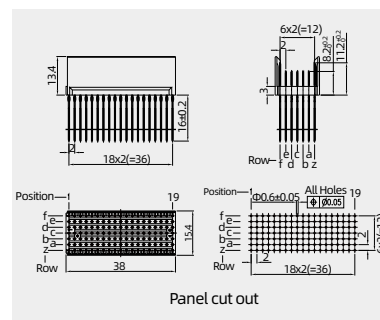
Technical Specifications

Specifications / Approvals			
Specifications	DIN 41612		
Insert		Contacts	
Number of Contacts	133	Termination method	Crimp Connection
Contact Rows	7	Contact Resistance	$\leq 20\text{m}\Omega$
Rated Current	1A	Material	Copper Alloy
Contact Spacing	2mm	Surface Treatment	Selective Gold Plating
Data rate	$\leq 2500\text{Mbit/s}$		
Test Voltage	0.75kV		
Insulation Resistance	$> 10^{12}\Omega$		
Material flammability class acc. to UL 94	V0		
Material	Liquid Crystal Polymer (LCP)		
Color	RAL 7032 (Pebble Gray)		
Operating Temperature Range	$-55^{\circ}\text{C} \dots +125^{\circ}\text{C}$		
Mechanical working life(mating cycles)	≥ 250		
Insertion and Withdrawal Force	$\leq 99.75\text{ N}$		
	$\geq 19.95\text{ N}$		
Performance Level	2		
PCB Thickness	$\geq 1.4\text{mm}$		

2.0MM 133PIN Male Connector

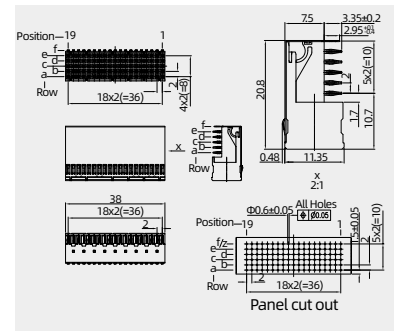


Description	Designation	Order Number
	WB02B-133-MTHR/2-16	141 031 330 0001



Specifications / Approvals			
Specifications		IEC 61076-4-101	
Insert		Contacts	
Number of Contacts	95	Termination method	Crimp Connection
Contact Rows	7	Contact Resistance	≤20mΩ
Contact Spacing	2mm	Material	Copper Alloy
Rated Current	1A	Surface Treatment	Selective Gold Plating
Data rate	≤2500Mbit/s		
Test Voltage	0.75kV		
Insulation Resistance	>10 ⁹ Ω		
Material flammability class acc. to UL 94	V0		
Material	Liquid Crystal Polymer (LCP)		
Color	RAL 7032 (Pebble Gray)		
Operating Temperature Range	-55°C ...+125°C		
Mechanical working life(mating cycles)	≥250		
Insertion and Withdrawal Force	≤ 71.25 N		
	≥ 14.25 N		
Performance Level	2		
PCB Thickness	≥1.4mm		

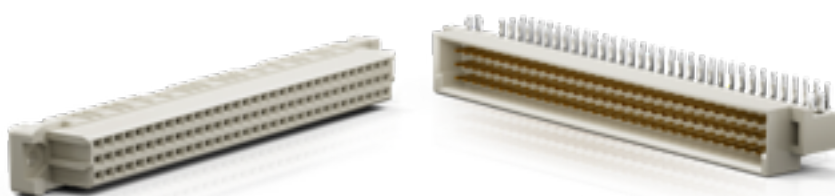
Description	Designation	Order Number
	WB02B-095-FSHP/2-3.4	141 030 950 0001



WAIN DIN 41612 Series

WAIN DIN 41612 Series Product Introduction

The DIN 41612 series connectors transmit signals through a grid-like PCB hole structure, enabling chips to detect the presence or absence of signals, such as in VME longitudinal applications. These connectors are well-suited for industrial applications like signal transmission/management in control modules for railways, semiconductors, automation, and machinery. The development of DIN 41612 connectors ensures compatibility between different suppliers. Various connection options, such as press-fit, soldering, and different crimping types, are available with multiple grid configurations. These connectors offer numerous advantages, including a high number of pins, excellent anti-interference capability, durability, and ease of installation.



Advantages of the DIN 41612 Series:

- Suitable for use in harsh industrial environments, offering 99.9% area coverage protection, preventing air and electrochemical corrosion.
- Special electroplating processes protect the contact area, ensuring high-reliability connections.
- Flexible assembly processes can meet the specific application needs of different customers.
- Contacts feature a 2.5 mm wiping length, ensuring reliable connections in harsh environments.
- Advanced mold technology provides high precision and reliability in product manufacturing.

WAIN DIN 41612 Series

General Characteristics of the DIN 41612 Series Products

- The basic dimensions of all connector series sizes comply with DIN 41612/IEC 60603-2.

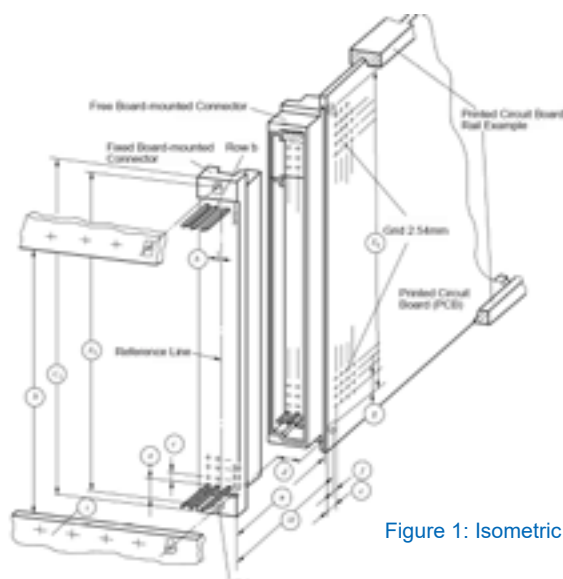


Figure 1: Isometric Diagram

Table 1: Isometric Diagram and Values

Letter Code	Dimension (mm)	Description
C ₁	95	Maximum length of fixed board-mounted connectors.
M	17.2 15.6	Range of electrical engagement (see Figure 1). Note: For reference only.
X ₁	90	Distance between the two mounting holes of the fixed board-mounted connector.
X ₂	88.9	Distance between the two mounting holes of the free board-mounted connector. Note: The mounting holes also comply with the 2.54mm grid as specified by GB/T1360-1998.
a	5.63	Distance between the reference point of the fixed board-mounted connector and the centerline passing through terminal 32.
b	0.3	Distance between the reference line of the fixed board-mounted connector and the centerline passing through terminal row "b."
c	nX2.54	Terminal pitch of the fixed board-mounted connector. Note: When using a 2x2.54mm = 5.08mm pitch, terminals are located at even positions 2, 4, 6, ..., 30, 32.
d	3.55	Distance between the reference line and the component side of the printed board.
e	5.3	Distance between the edge of the printed board and the first row of holes for the free board-mounted connector. Note: Not applicable for type W.
f	2.54	Distance between the mounting hole and the first row of holes of the free board-mounted connector. Note: Not applicable for type W.
g	5.08	Distance between the mounting hole and the line passing through terminal 1 or terminal 32 of the free board-mounted connector.
h	85	Minimum distance between the mounting brackets of the fixed board-mounted connector or the minimum length of the mounting opening.
i	2.5	Maximum thickness of the mounting plate or mounting bracket for the fixed board-mounted connector.
u	14.2 12.4	Range ensuring reliable contact. Note: See insertion data in Section 4.2.

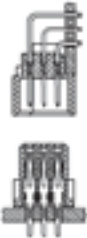
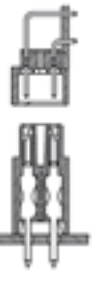
WAIN DIN 41612 Series

General Characteristics of the DIN 41612 Series Products

The center spacing of the terminals should be 2.54 mm or its multiples. The terminals of the free board-mounted connector should fit the holes of printed boards that comply with IEC 60326-3:1991 and GB/T 1360-1998 2.54 mm grid specifications.

Additionally, WAIN's DIN 41612 series products comply with the international standards DIN 41612/IEC 60603-2. The product types include B, 2B, 3B, C, 2C, 3C, Q, R, M, D, E, F, and the extended VME 64X types. With a wide range of product combinations, it is easy to find a suitable connector type and style to meet your application needs. Common bus systems include STE Bus, CIMBUS, FUTUREBUS, VMEBus, MULTIBUS (II), NUBUS, VXi Bus, and VME64X.

■ DIN 41612 Series Product Configurations

Type B	Type C & M	Enhanced Type C	Type D	Type F	Type R	Type C	Type C
							
Type B	Type C & M	Enhanced Type C	Type D	Type F	Type R	Type C	Type C

WAIN DIN 41612 Series

DIN-B Type Connector

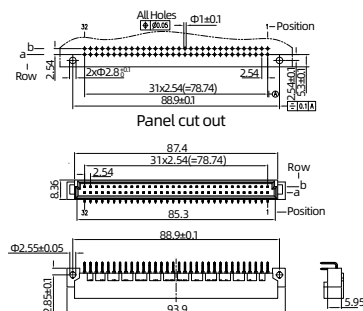


Technical Specifications

Specifications / Approvals	
Specifications	DIN41612 / IEC 60603-2
Insert	
Number of Contacts	32,64
Contact Rows	2
Insert material	Liquid Crystal Polymer (LCP)
Rated Current	2A
Insulation Resistance	>10 ¹² Ω
Test Voltage	1.0kV
Color	RAL 7032 (Pebble Gray)
Material flammability class acc. to UL 94	V0
Ambient temperature	-55°C ... +125°C
Performance Level	1,2,3
Contacts	
Contact Resistance	≤20 mΩ
Termination method	Wave Soldering
Material	Copper Alloy
Surface Treatment	Selective Gold Plating

WAIN DIN 41612 Series

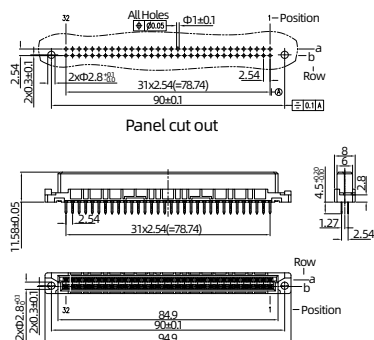
DIN-B Type Male Connector



Name	Number of Contacts	Contact configuration	3	2		1
				Designation	Order Number	
Angled Solder Contacts	64		Performance Level 3, please inquire	WB01B-064-MSHT/2	141 040 640 0002	Performance Level 1, please inquire
	32		32- Contact Requirement, please inquire			
	32					
	62+2		a1, a32 Pre-insertion Contact Requirement, please inquire			

Note: For connectors with fixing clamps, please inquire.

DIN-B Type Female Connector



Name	Number of Contacts	Contact configuration	3	2		1
				Designation	Order Number	
2.9 mm Solder Contacts	64		For 2.9mm solder contact requirements, please inquire.			
4.5 mm Solder Contacts	64		Performance Level 3, please inquire	WB01B-064-FTHT/2-4.5	141 040 640 0003	oPerformance Level 1, please inquire.
13 mm Solder Contacts	64		For 13mm solder contact requirements, please inquire.			
13 mm Wire-wrapping Posts	64		For 13mm wire-wrapping post requirements, please inquire.			

Note: For Press-fit contacts or connectors with fixing clamps, please inquire.

WAIN DIN 41612 Series

DIN-C Type Connector

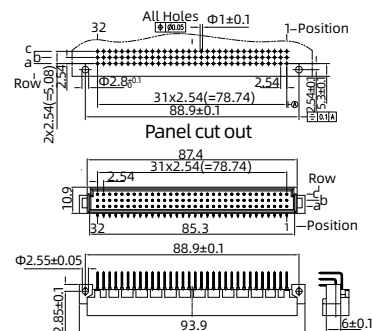


Technical Specifications

Specifications / Approvals	
Specifications	DIN41612 / IEC 60603-2
Insert	
Number of Contacts	32,64,96
Contact Rows	3
Contact Spacing	2.54mm
Rated Current	2A
Test Voltage Ur.m.s.	1.0kV
Insulation Resistance	>10 ¹² Ω
Material flammability class acc. to UL 94	V0
Material	Copper Alloy
Color	RAL 7032 (Pebble Gray)
Operating Temperature Range	-55°C ...+125°C
Performance Level	1,2,3
Contacts	
Termination method	Wave Soldering
Contact Resistance	≤20mΩ
Material	Copper Alloy
Surface Treatment	Selective Gold Plating

WAIN DIN 41612 Series

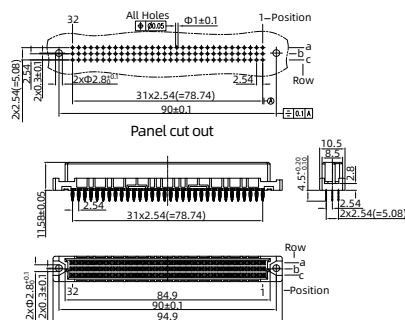
DIN-C Type Male Connector



Name	Number of Contacts	Contact configuration	3		2		1	
			Model	Order Number	Designation	Order Number		
Angled Solder Contacts	96		WB01C-096-MSHT/3	1410409600002	WB01C-096-MSHT/2	141 040 960 0001	Performance Level 1, please inquire	
			For fixing clamp requirements, please inquire.		*WB01C-096-MSHT/C2	*141 040 960 0007		
	64		Performance Level 3, please inquire		WB01C-064-MSHT/2	141 040 640 0001		
	32				WB01C-032-MSHT/2	141 040 320 0003		
	94+2		a1, a32 Pre-insertion Contact Requirement, please inquire					
	62+2							

Note: For connectors with fixing clamps, please inquire.

DIN-C Type Female Connector



Name	Number of Contacts	Contact configuration	3		2		1
			Model	Order Number	Designation	Order Number	
4.5 mm Solder Contacts	96				WB01C-096-FTHT/2-4.5	141 040 960 0008	Performance Level 1, please inquire
					WB01C-096-FTHP/2-4.5 ^{a)}	141 040 960 0006	
			WB01C-096-FTHT/3-TAC001/032-4.5 ^{b)}	141 040 960 0004	WB01C-096-FTHT/2-TAC001/032-4.5 ^{b)}	141 040 960 0003	
	64		Performance Level 3, please inquire		WB01C-064-FTHT/2-4.5	141 040 640 0004	
	32				WB01C-032-FTHT/2-4.5	141 040 320 0004	

For Press-Fit pins or requirements with fixing clips, please inquire.

(a) Press-Fit pins; (b) Pins with bent leads.

WAIN DIN 41612 Series

DIN-C Type Female Connector

Name	Number of Contacts	Contact configuration	3	2		1
				Designation	Order Numbe	
2.9 mm Solder Contacts	96		For 2.9mm solder contact requirements, please inquire.			
	64					
	32					
13 mm Solder Contacts	96			WB01C-096-FTHR/2-13	141 040 960 0019	
17mm Eyelet Pin	96		Performance Level 3, please inquire	WB01C-096-FTHR/2-17	141 040 960 0005	Performance Level 1, please inquire

Note: For Press-Fit pins or requirements with fixing clips, please inquire.

WAIN DIN 41612 Series

Technical Specifications

Specifications / Approvals			
Specifications	IEC 61076-4-113		
Insert			
Number of Contacts	96	Contacts	
Contact Rows	3	Termination method	Crimp Connection
Contact Spacing	2.54mm	Contact Resistance	$\leq 20\text{m}\Omega$
Rated Current	2A	Material	Copper Alloy
Test Voltage	1.0kV	Surface Treatment	Selective Gold Plating
Insulation Resistance	$>10^{12}\Omega$		
Material flammability class acc. to UL 94	V0		
Material	Liquid Crystal Polymer (LCP)		
Color	RAL 7032 (Pebble Gray)		
Operating Temperature Range	$-55^{\circ}\text{C} \dots +125^{\circ}\text{C}$		
Insertion force:	$\leq 90\text{ N}$		
Withdrawal force:	$\leq 60\text{ N}$		
Fixation method of PCB	With fixed flange		

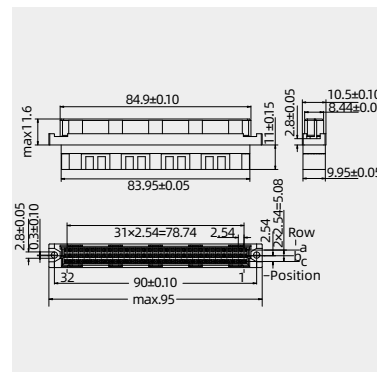
PCB

DIN Type C Cold Crimp Connector

DIN Type C Cold Crimp



Description	Designation	Order Number
	WB01C-096-FC	141 040 960 0018



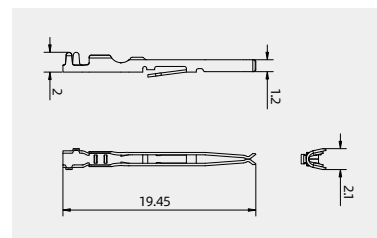
Crimp contacts

Crimp contacts 2A

Contact resistance $\leq 20\text{m}\Omega$
gold plated



Wire gauge (mm ²)	Designation	Order No.
0.09-0.5	CBGF/2-0.5P	101 012 220 0451



WAIN DIN 41612 Series

DIN-Q Type Connector

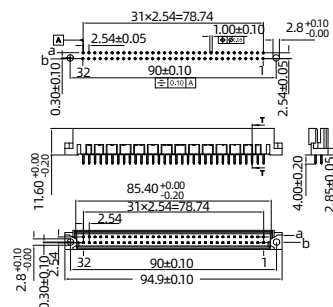


Technical Specifications

Specifications / Approvals	
Specifications	DIN41612 / IEC 60603-2
Insert	
Number of Contacts	64
Contact Rows	2
Contact Spacing	2.54mm/7.62mm
Rated Current	2A
Test Voltage Ur.m.s.	1.0kV
Insulation Resistance	>10 ¹² Ω
Material flammability class acc. to UL 94	V0
Material	Copper Alloy
Color	RAL 7032 (Pebble Gray)
Operating Temperature Range	-55°C ...+125°C
Performance Level	1, 2, 3
Contacts	
Termination method	Wave Soldering
Contact Resistance	≤20mΩ
Material	Copper Alloy
Surface Treatment	Selective Gold Plating

WAIN DIN 41612 Series

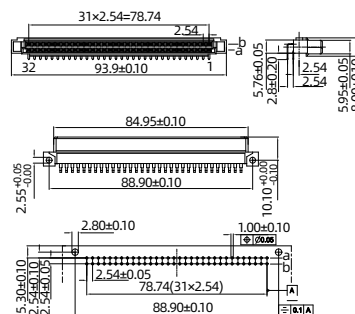
DIN-Q Type Male Connector



Name	Number of Contacts	Contact configuration	3	2		1
Straight Solder Pin4.0	64		Performance Level 3, please inquire	WB01Q-064-MTHT/2-4	141 040 640 0014	Performance Level 1, please inquire

Note: For press-fit pins or requirements with locking clips, please contact us.

DIN-Q Type Female Connector



Name	Number of Contacts	Contact configuration	3	2		1
Angled Solder Contacts	64		Performance Level 3, please inquire	WB01Q-064-FSHT/2	141 040 640 0016	Performance Level 1, please inquire

Note: For locking clip requirements, please contact us.

WAIN DIN 41612 Series

DIN-R Type Connector

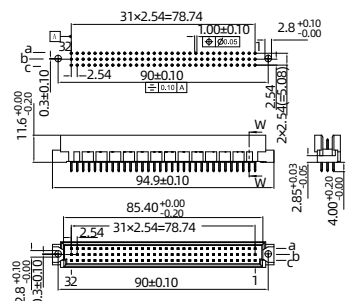


Technical Specifications

Specifications / Approvals	
Specifications	DIN41612 / IEC 60603-2
Insert	
Number of Contacts	96
Contact Rows	3
Contact Spacing	2.54mm
Rated Current	2A
Test Voltage Ur.m.s.	1.0kV
Insulation Resistance	>10 ¹² Ω
Material flammability class acc. to UL 94	V0
Material	Copper Alloy
Color	RAL 7032 (Pebble Gray)
Operating Temperature Range	-55°C ...+125°C
Performance Level	1, 2, 3
Insertion and Withdrawal Force	≤ 90 N
Contacts	
Termination method	Wave Soldering
Contact Resistance	≤20mΩ
Material	Copper Alloy
Surface Treatment	Selective Gold Plating

WAIN DIN 41612 Series

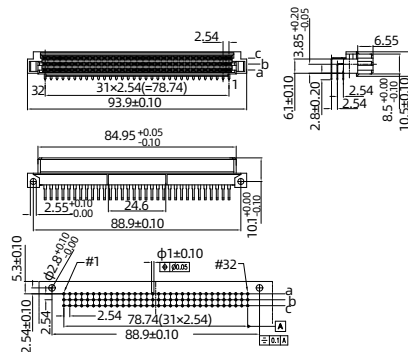
DIN-R Type Male Connector



Name	Number of Contacts	Contact configuration	3	2		1
Straight Solder Pin4.0	96		Performance Level 3, please inquire	WB01R-096-MTHT/2-4	141 040 960 0012	Performance Level 1, please inquire
	64			Performance Level 2, please inquire		

Note: For press-fit pins or requirements with locking clips, please contact us.

DIN-R Type Female Connector

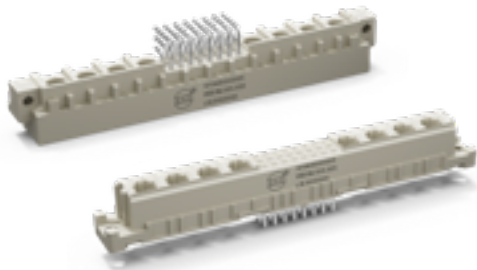


Name	Number of Contacts	Contact configuration	3	2		1
Straight Solder Pin4.0	96		Performance Level 3, please inquire	WB01R-096-FSHT/2	141 040 960 0013	Performance Level 1, please inquire
	64			Performance Level 2, please inquire		

Note: For locking clip requirements, please contact us.

WAIN DIN 41612 Series

DIN-M Type Connector

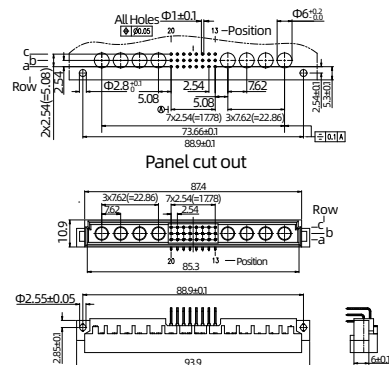
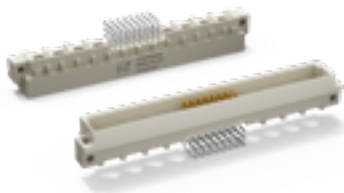


Technical Specifications

Specifications / Approvals	
Specifications	DIN41612 / IEC 60603-2
Insert	
Number of Contacts	24+8,42+6,60+4,78+2
Contact Rows	3
Contact Spacing	2.54mm/7.62mm
Rated Current	2A
Test Voltage Ur.m.s.	1.0kV
Insulation Resistance	>10 ¹² Ω
Material flammability class acc. to UL 94	V0
Material	Copper Alloy
Color	RAL 7032 (Pebble Gray)
Operating Temperature Range	-55°C ...+125°C
Performance Level	1,2,3
Contacts	
Termination method	Wave Soldering
Contact Resistance	≤20mΩ
Material	Copper Alloy
Surface Treatment	Selective Gold Plating

WAIN DIN 41612 Series

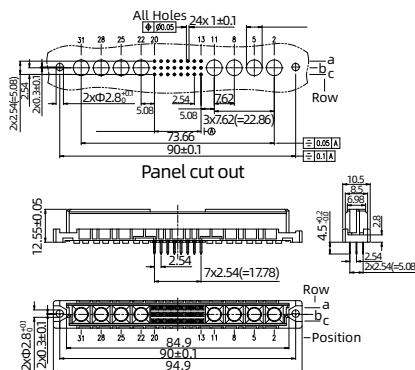
DIN-M Type Male Connector



Name	Number of Contacts	Contact configuration	3	2		1
				Designation	Order Number	
Angled Solder Contacts (Signal)	78+2		For different pin position requirements, please inquire.			
	60+4					
	42+6					
	24+8		Performance Level 3, please inquire	WB01M-024/8-MSHT/2	141 040 320 0001	Performance Level 1, please inquire

Note: For fixing clamps, high-current contacts, high-voltage contacts, coaxial contacts, or fiber optic contacts, please inquire.

DIN-M Type Female Connector



Name	Number of Contacts	Contact configuration	3	2		1
				Designation	Order Number	
4.5 mm Solder Contacts	78+2		For different pin position requirements, please inquire.			
	60+4					
	42+6					
	24+8		Performance Level 3, please inquire	WB01M-024/8-FTHT/2-4.5	141 040 320 0002	Performance Level 1, please inquire

Note: For Press-fit contacts, high-current contacts, high-voltage contacts, coaxial contacts, or fiber optic contacts, please inquire.

WAIN DIN 41612 Series

DIN-M Type Contacts



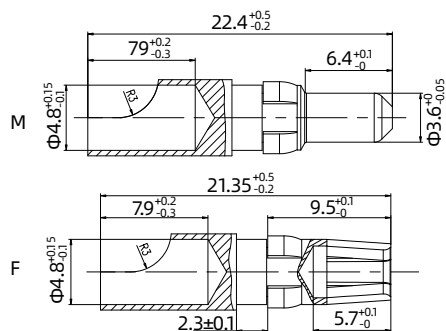
Technical Specifications

Standards/Certifications	
Standards	DIN41612 / IEC 60603-2
Certifications	
Contacts	
Rated Current	10A,20A,40A
Material	Copper Alloy
Surface Treatment	Gold Plating
Wiring Methods	Crimping, Soldering, Press-fit, etc.



WAIN DIN 41612 Series

DIN-M Type Contacts



Name	Designation	Order Number
40A Soldering Male Contact	TCGM-d4.8	101 023 213 0050
40A Soldering Female Contact	TCGF-d4.8	101 023 223 0050

Note: For high-current contacts, high-voltage contacts, coaxial contacts, or fiber optic contacts, please inquire.

WAIN DIN 41612 Series

DIN-D Type Connector

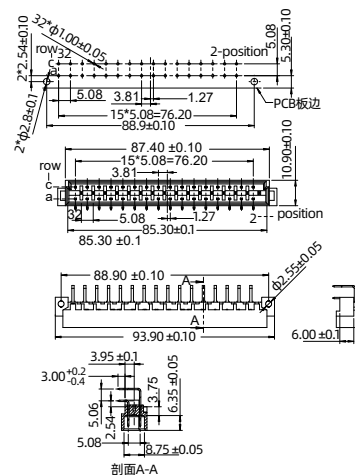


Technical Specifications

Specifications / Approvals	
Specifications	DIN41612 / IEC 60603-2
Insert	
Number of Contacts	32
Contact Rows	2
Contact Spacing	5.08mm
Rated Current	6A
Test Voltage Ur.m.s.	1.55kV
Insulation Resistance	>10 ¹² Ω
Material flammability class acc. to UL 94	V0
Material	Copper Alloy
Color	RAL 7032 (Pebble Gray)
Operating Temperature Range	-55°C ...+125°C
Performance Level	1, 2, 3
Insertion and Withdrawal Force	≤ 40 N
Contacts	
Termination method	Wave Soldering
Contact Resistance	≤15mΩ
Material	Copper Alloy
Surface Treatment	Nickel-plated base, tin-plated solderable area, gold-plated contact surface

WAIN DIN 41612 Series

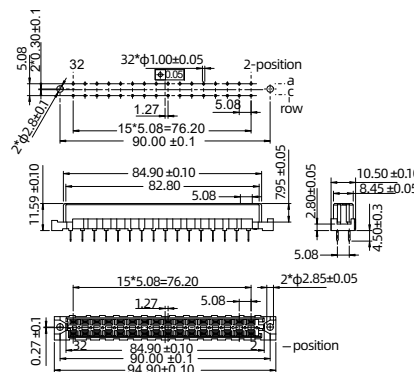
DIN-D Type Male Connector



Name	Number of Contacts	Contact configuration	3	2	1
Straight Solder Pin4.0	32		Performance Level 3, please inquire	WB01D-032-MSHT/2 141 010 320 0008	Performance Level 1, please inquire

Note: For press-fit pins or requirements with locking clips, please contact us.

DIN-D Type Female Connector

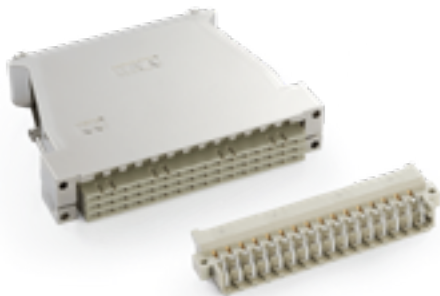


Name	Number of Contacts	Contact configuration	3	2	1
4.5 mm Solder Contacts	32		Performance Level 3, please inquire	WB01D-032-FTHT/2-4.5 141 010 320 0009	Performance Level 1, please inquire

Note: For locking clip requirements, please contact us.

WAIN DIN 41612 Series

DIN-F Type Connector

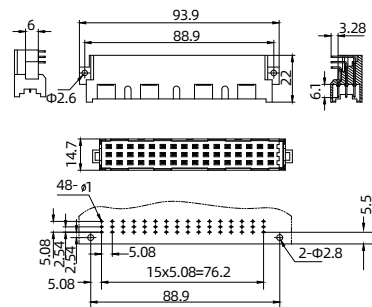


Technical Specifications

Specifications / Approvals	
Specifications	DIN41612 / IEC 60603-2
Insert	
Number of Contacts	
Contact Rows	3
Contact Spacing	3.81mm/5.08mm
Rated Current	6A
Test Voltage Ur.m.s	1.5KV (Phase-to-Phase)
	2.5KV (Phase-to-Ground)
Insulation Resistance	≥10 ¹² Ω
Material flammability class acc. to UL 94	V0
Material	Thermoplastic Resin
Color	RAL7032 (Light Gray)
Operating Temperature Range	-55°C ...+125°C
Contacts	
Termination method	Crimping, Soldering
Contact Resistance	≤15mΩ
Material	Copper Alloy
Surface Treatment	Selective Gold Plating

WAIN DIN 41612 Series

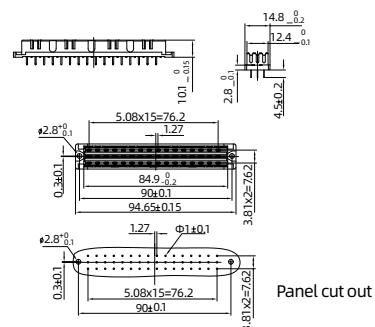
DIN-F Type Male Connector



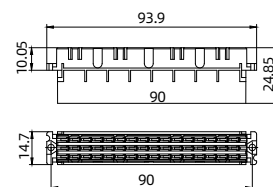
Name	Number of Contacts	Contact configuration	3	2		1
				Designation	Order Number	
Angled Solder Contacts	48		Performance Level 3, please inquire	WBF-048-MSHT	139 048 013 0001	Performance Level 1, please inquire
	32		For 32-pin requirements, please inquire.			
	32					

Note: For fixing clamp requirements, please inquire.

DIN-F Type Female Connector



Name	Number of Contacts	Contact configuration	3	2		1
				Designation	Order Number	
Angled Solder Contacts	48		Performance Level 3, please inquire	WBF-048-FTHT	139 048 024 0001	Performance Level 1, please inquire
	32		For 32-pin requirements, please inquire.			
	32					

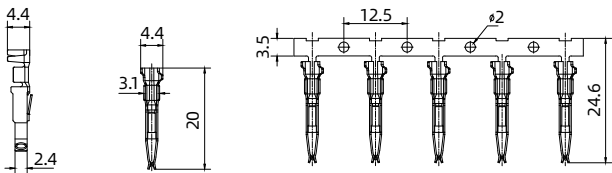


Name	Designation	Order Number
Insert	WBF-048-FC	139 048 020 0001

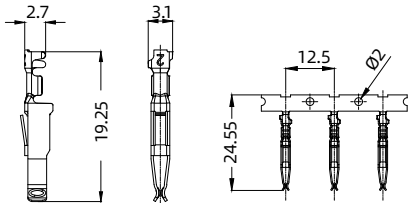
Note: For Press-fit pin requirements, please inquire.

WAIN DIN 41612 Series

DIN-F Type Contacts



Name	Designation	Order Number
Contacts	CBGF-1.5P	101 040 202 0901



Name	Designation	Order Number
Contacts	CBGF-0.5P	101 040 202 0551

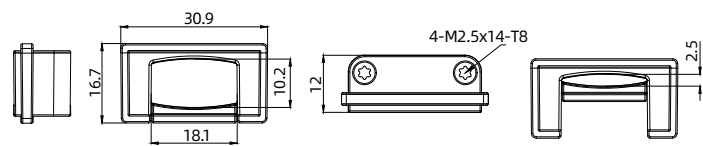
DIN-F Type Contact Extractor



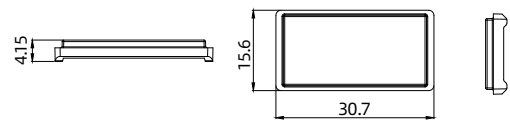
Name	Designation	Order Number
Contacts	TL-BR	198 001 000 0040

WAIN DIN 41612 Series

DIN-F Type Accessories

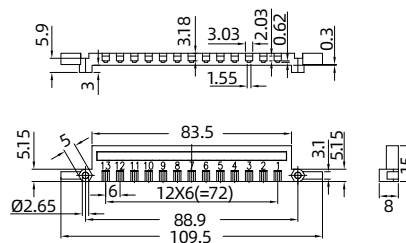


Name	Designation	Order Number
Cable Clamp	W20D-CLP	198 002 006 0021



Name	Designation	Order Number
Cable Exit Cover Plate	W20D-CV	120 120 000 8001

WAIN DIN 41612 Series

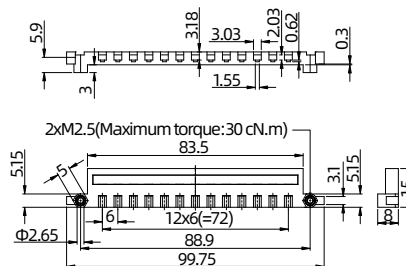


Name	Designation	Order Number
Code Comb	W20D-PCC	139 000 099 0500

PCB



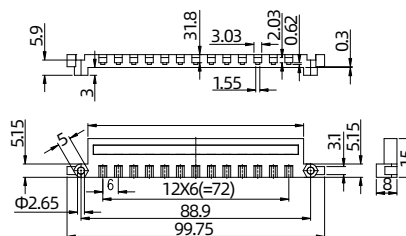
- Short Version with M2.5 Injection-molded Nut



Name	Designation	Order Number
Code Comb	W20D-PCC/SN	141 040 010 0001

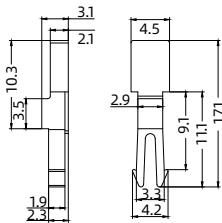


- Short Version

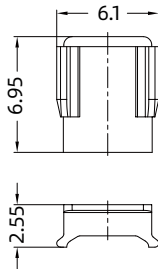


Name	Designation	Order Number
Code Comb	W20D-PCC/S	141 040 010 0002

WAIN DIN 41612 Series

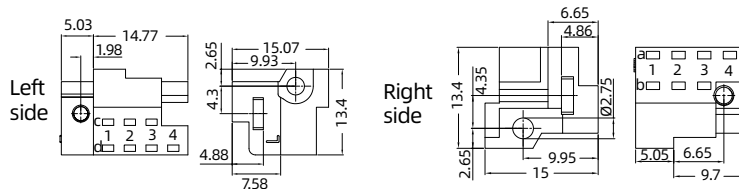
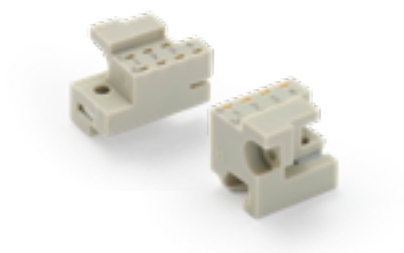


Name	Designation	Order Number
Coding Pin	CODE-W	198 002 005 0037



Name	Designation	Order Number
Coding Pin	CODE-F	198 002 005 0040

WAIN DIN 41612 Series

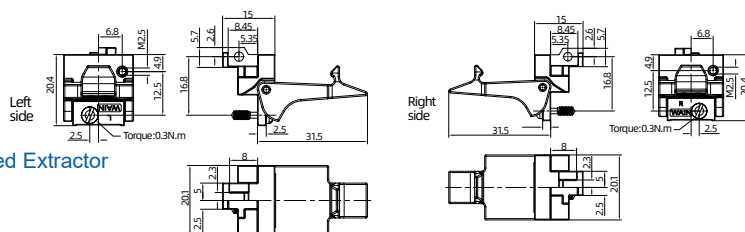


Name	Designation	Order Number
Adapter	W20D-Code-B/L	139 000 099 0501
	W20D-Code-B/R	139 000 099 0502

PCB



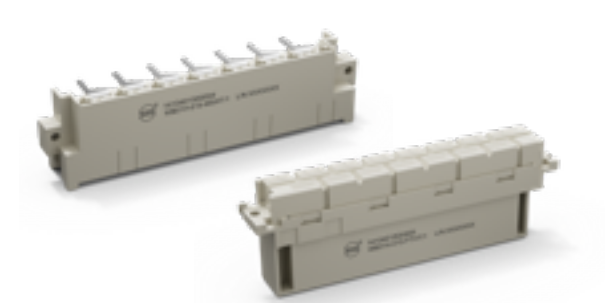
• M2.5 Screw-assisted Extractor



Name	Designation	Order Number
Adapter	W20D-MCode-B/PLS	141 040 000 0003
	W20D-MCode-B/PRS	141 040 000 0004
	W20D-MCode-B/PL	141 040 000 0005
	W20D-MCode-B/PR	141 040 000 0006

WAIN DIN 41612 Series

DIN-H Type Connector

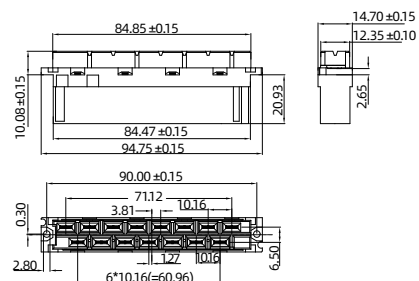


Technical Specifications

Specifications / Approvals	
Specifications	DIN41612 / IEC 60603-2
Insert	
Number of Contacts	15
Contact Rows	2
Contact Spacing	10.16mm
Rated Current	15A
Test Voltage Ur.m.s.	3.1 kV
Insulation Resistance	>10 ¹² Ω
Material flammability class acc. to UL 94	V0
Material	Copper Alloy
Color	RAL 7032 (Pebble Gray)
Operating Temperature Range	-55°C ...+125°C
Performance Level	1, 2, 3
Insertion and Withdrawal Force	≤ 40 N
Contacts	
Termination method	Cold Crimping
Contact Resistance	≤8mΩ
Material	Copper Alloy
Surface Treatment	silver-plated

WAIN DIN 41612 Series

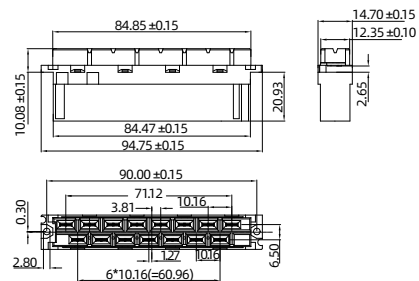
DIN-H Type Male Connector



Name	Number of Contacts	1	
Male connector for receptacle insertion, 6.3×2.5mm	15	WB01H-015-MSHT/1	141 040 150 0004

Note: For locking clip requirements, please contact us.

DIN-H Type Female Connector



Name	Number of Contacts	1	
Female connector for receptacle insertion, 6.3×2.5mm	15	WB01H-015-FTHF/1	141 040 150 0005

Note: For locking clip requirements, please contact us.