



Edac's waterproof Wire-to-Wire and Wire-to-Board series was designed for both extreme moisture and nonsubmersion applications supporting both low-level signal and power applications up to 12 amps and 300 volts.

Major applications include automotive, commercial and recreational vehicles, outdoor lighting, appliances, marine & aftermarket products, solar power installations, industrial equipment, process control, construction equipment, outdoor broadcast systems and portable devices.

Edac's waterproof series comes in pitch sizes ranging from 2.0mm to 5.08mm and feature silicone rubber gaskets either pre-installed in all-in-one plugs and receptacle housings or loose and available in a range of sizes to accommodate wire from 28 - 14 AWG with either thin or standard wire insulation. Operating temperature range across the whole series of -40° to +105° C.

Some of the unique features of Edac's waterproof series include integral locking tabs designed to prevent accidental disengagements, keying system to prevent miss-mating, circuit sizes from 1 to 9 positions and visual confirmation of proper sealing.

Application tooling available includes hand tools for prototype and small builds to fully automated presses and applicators for high production applications. Edac also offers the whole series in custom cables already fully assembled.

Features and Benefits

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Pre assembled housings, seals and Terminal Position Assurance (TPA) components

Simple crimp, poke and plug application

Integral two way, mate and interface seals designed and tested to IP67 and SAE USCAR-2*

Easy terminal extraction and insertion

Compatible with a wide range of UL (28 to 14 AWG) and SAE Automotive (28 to 14) style wires

Integral locking latch with secondary connector position assurance (CPA) option

Applied cost savings

No need to crimp individual wire seals for 565 and 566 Series

Locks terminals into housings and prevents terminals from backing out

More than just waterproof, a true sealed connector system tested under submerged conditions

Quick, low cost field repairs

Support a wide range of power and signal applications

Assures positive mating of connector and prevents accidental disengagement during high vibration and severe shock application

Applications

Lighting	Industrial Pumps	Welding Equipment	Sound / Broadcast Systems
Process Equipment	Marine	Traffic Management	Liquid Monitoring Meters
Portable Equipment	Test Equipment	Recreation Vehicles	Construction Equipment
Emergency Vehicles	Industrial Equipment	Automotive	Appliances

(* Except 567 Series - Tested to IP52 Splashproof)





Quick Reference Guide

Series	Туре	Amps	Pitch	Terminal	Page
565	Wire to Wire	3	2.5mm	565 Series	4
565	Wire to Board	3	2.5mm	565 Series	4
566	Wire to Wire	2	2.0mm	566 Series	6
566	Wire to Board	2	2.0mm	566 Series	6
567	Wire to Wire	8	5.0x5.9mm	570 Series	8
570	Wire to Wire	10	5.8mm	570 Series	10
570	Wire to Board	10	5.8mm	570 Series	10
568	Wire to Wire	12	N/A	570 Series	12
Tools					13

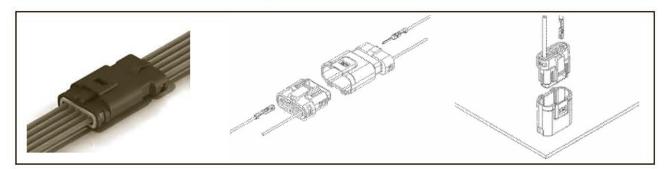
How to use this Catalogue

- Using the quick reference guide above, select the type of solution you need and proper current rating for your application and refer to the section of the catalogue with the series you've selected.
- Select the part with the appropriate number of contacts required for your application and the mating connector if required. (Quantities shown are standard pack quantities).
- If applicable, using the Wire Seal selection guide in the series section, select the seal required for the wire gauge to be used in the application.
- Terminals are supplied on the reel and in bulk. See specific series section for more information on available standard quantities.

Custom assemblies are available in all series directly from Edac manufactured to your specifications. Contact the factory or your local representative for more information.

Wire Gauge Cross Reference

Gauge / A.W.G.	Sectional Area mm ²	Gauge / A.W.G.	Sectional Area mm ²
#10	5.2	#24	0.21
#12	3.3	#26	0.13
#14	2.0	#28	0.08
#16	1.31	#30	0.05
#18	0.83	#32	0.03
#20	0.52	#34	0.02
#22	0.33	#36	0.01



Features

- •2.5mm pitch, Rated current: 3A Max
- •Fully Waterproof solution
- Available in wire-to-wire and wire-to-board (potable) options
- Seals preassembled into housing-no external sealing required
- •True crimp and poke solution
- . Available with wire already installed
- •Waterproof caps available to cover unused holes

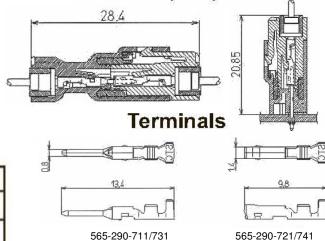
Materials

Housing	PBT (UL94V-0)	
Terminal	Phosphor Bronze/Tin Plating	
PCB Header	PBT with glass (UL94V-0) Brass / Tin Plating	
Wire • Housing Seal	Silicone Rubber	

Specifications

1	Circuits	2,3,5P
2	Pitch	2.5mm
3	Rated Voltage	250∨
4	Rated Current	3A max.
5	Withstand Voltage	AC1000V r.m.s.
6	Contact Resistance	15m Ω max.
7	Insulation Resistance	1000M Ω min. /DC 500 V
8	Temperature Range	-40°C ~+ 105°C
9	Waterproof Grade	IP67
1	PCB Thickness	1.6mm

Assembly Layout



Contact Edac for more information.

AWG #22 - 28		Ins. Dia.	Pcs/Reel
REC (F)	565-290-721	Ø1.60 max	10,000 x 6 R
TAB (M)	565-290-711	Ø1.00 max	8,000 x 5 R
AWG #20 - 22		Ins. Dia.	Pcs/Reel
REC (F)	565-290-741	Ø1.70 max	8,000 x 6 R
TAB (M)	565-290-731	۱.70 max	8,000 x 5 R

Internal Wire Seal

Ins. Dia.	Color	Applicable Terminal
Ø1.0~1.30	Yellow	565-290-711 565-290-721
Ø1.30~1.70	Orange	565-290-731 565-290-741

Waterpoofing Cap

565-200-100

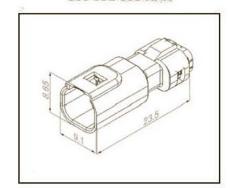


Female Housing



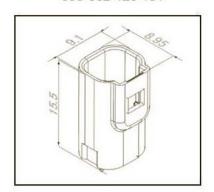
Male Housing

565-002-000-XXX

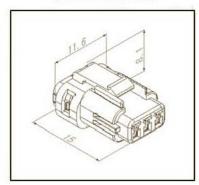


PCB Header

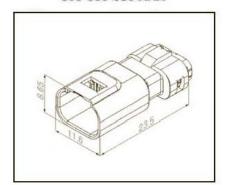
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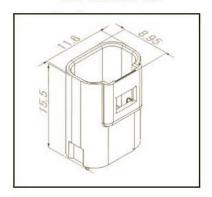
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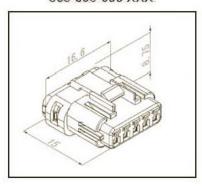
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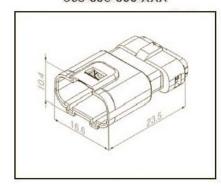
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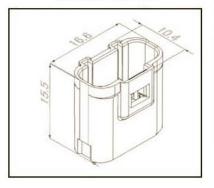
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565-005-000-XXX

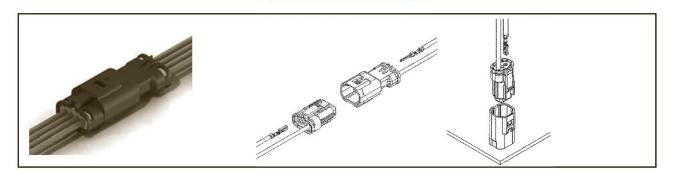


565-005-420-101



Insulation Diameter	"XXX"	Male Housing Color
Ø1 0mm to Ø1 0mm	110	White
Ø1.0mm to Ø1.3mm	310	Black
Ø1 2mm to Ø1 7mm	111	White
Ø1.3mm to Ø1.7mm	311	Black

Insulation Diameter	"XXX"	Female Housing Color
Ø1.0mm to Ø1.3mm	210	White
01.011111 to 01.311111	410	Black
Ø1 2mm to Ø1 7mm	211	White
Ø1.3mm to Ø1.7mm	411	Black



Features

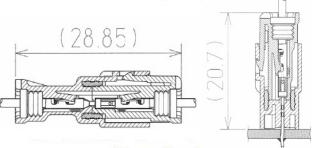
566 Series

- •2.0mm pitch, rated current: 2A Max
- Fully waterproof solution
- ·Available in wire-to-wire and wire-to-board options
- •Seals preassembled into housing-no external sealing required
- •True crimp and poke solution
- ·Available with wire already installed
- ·Waterproof caps available to cover unused holes

Materials

Housing	PBT (UL 94V-0)
Terminal	Phosphor Bronze/Tin Plating
PCB Header	PBT with glass (UL 94V-0) Brass/Tin Plating
Wire + Housing Seal	Silicone Rubber

Assembly Layout



Terminals

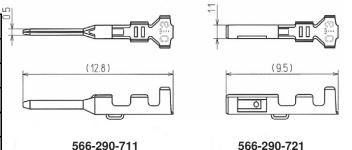
Part Number	Wire Range	Ins. Dia.	Pcs/Reel	Gender
566-290-711	0.8-0.3mm ² (AWG #22-#28)	Ø1.0~1.5	12,000	Male
566-290-721	0.8-0.3mm ² (AWG #22-#28)	Ø1.0~1.5	12,000	Female

Specifications Wire-to-Wire Circuits 2, 3, 4P Wire-to-Board Circuits 2, 3P 2 Pitch 2.0mm 250V 3 Rated Voltage 4 Rated Current 2A max 5 Withstand Voltage AC 1000V r.m.s. 6 $10 \text{ m}\Omega \text{ max}$ Contact Resistance 7 Insulation Resistance 10000 M Ω min/DC 500V 8 Temperature Range -40°C ~ +105°C 9 Waterproof Grade IP67

Waterproofing Cap

1.6mm

566-200-100



Internal Wire Seal

Insulation	Color	Applicable
Diameter	Coloi	Terminal
Ø1.0 ~ Ø1.25	Light Blue	566-290-711 566-290-721
Ø1.25 ~ Ø1.5	Orange	300-290-721

Contact Edac for more information.

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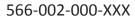
PCB Thickness

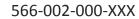


Female Housing

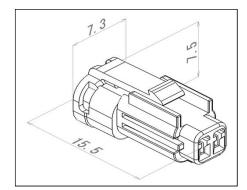
Male Housing

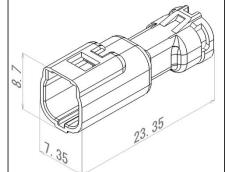
PCB Header

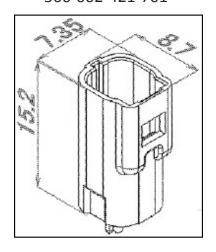




566-002-421-701*



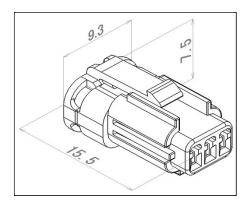


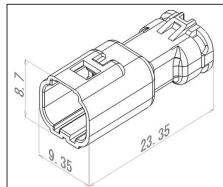


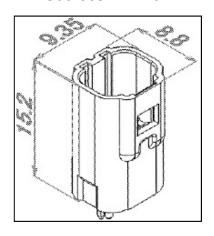
566-003-000-XXX

566-003-000-XXX

566-003-421-701*



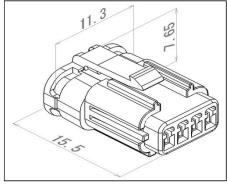




566-004-000-XXX

566-004-000-XXX

701*-Black color housing

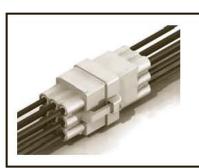


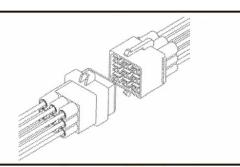
			7.6
15.3			

Insulation Diameter	"XXX"	Male Housing Color
Ø1.0mm to	510	White
Ø1.25mm	710	Black
Ø1.25mm to	511	White
Ø1.5mm	711	Black

Insulation Diameter	"XXX"	Female Housing Color
Ø1.0mm to	610	White
Ø1.25mm	810	Black
Ø1.25mm to	611	White
Ø1.5mm	811	Black

IP52 CERTIFIED





Features

- •5.0x5.9mm pitch, rated current: 8A Max
- Splash proof solution tested to IP52
- ·Available with wire already installed

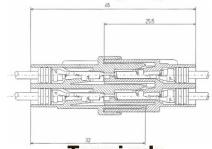
Materials

Housing	PBT (UL94V-0)
Housing	FB1 (OL94V-0)
Terminal	Brass, Phosphor Bronze/Tin Plating
Wire • Housing Seal	Silicone Rubber

Specifications

1	Circuits	1,2,3,4,6,9P
2	Pitch	5.0X5.9mm
3	Rated Voltage	300V
4	Rated Current	8A max.
5	Withstand Voltage	AC1700V r.m.s.
6	Contact Resistance	10m Ω max.
7	Insulation Resistance	1000M Ω min. /DC 500 V
8	Temperature Range	-40°C ~+ 105°C
9	Waterproof Grade	IP 52

Assembly Layout



Terminals

Part Number	Material	Wire Range	Inside Dia	PCS/Reel	Туре
570-290-711	Brass	0.3-0.5mm ² (AWG #22~#20)	Ø2.7 max	4,000	Male
570-290-721	Brass	0.3-0.5mm²	Ø2.7 max	4,000	Female
570-291-721	Phos.Br*	(AWG #22~#20)	Ø2.7 IIIdx	4,000	remale
570-290-731	Brass	0.5-1.25mm ²	Ø3.1 max	4.000	Male
570-291-731	Phos.Br*	(AWG #20~#16)	Ø3.1 IIIax	4,000	Iviale
570-290-741	Brass	0.5-1.25mm ²	Ø3.1 max	4,000	Female
570-291-741	Phos.Br*	(AWG #20~#16)	Ø3.1 IIIax	4,000	remaie
570-290-751	Brass	2.0mm ² (AWG #14)	Ø3.1 max	4,000	Male
570-290-761	Brass	2.0mm ² (AWG #14)	Ø3.1 max	4,000	Female

*Phosphor Bronze terminals are available in special order Terminals are also available in smaller strip lengths

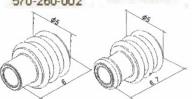
Wire Seal

Part Number	Ins. Dia.	Color	Pcs
570-260-001	Ø 1.7 ~ 2.1	Black	1,000
570-260-002	Ø 2.1 ~ 2.7	Blue	1,000
570-260-003	Ø 2.1 ~ 2.7	Blue	1,000
570-260-004	Ø 2.7 ~ 3.1	Brown	1,000

570-260-001 570-260-002

570-260-003

570-260-004

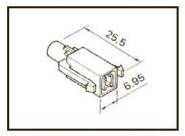




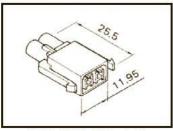


Female Housing

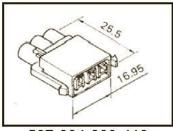
567-001-000-410



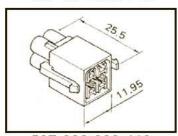
567-002-000-410



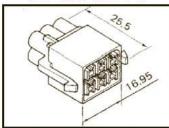
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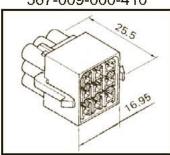
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567-006-000-410

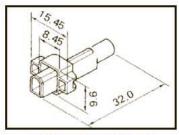


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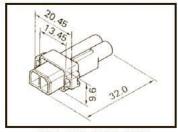


Male Housing

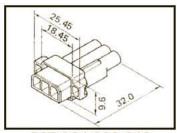
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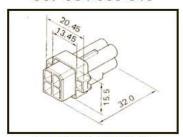
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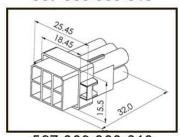
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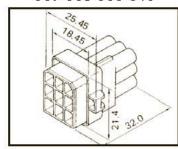
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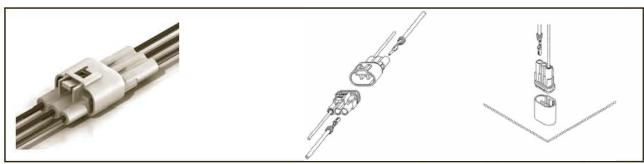


567-006-000-310



567-009-000-310

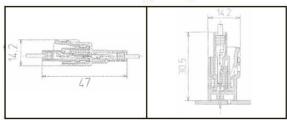




Features

- 5.8mm pitch, Rated current: 10A Max
- •Waterproof solution from 1 to 3 positions
- Wide range of wire sizes available
- ·Wire to wire and board mount options available
- Available with wire already installed

Assembly Layout



Materials

Housing	PBT (UL 94V-0)
Terminal	Brass, Phosphor Bronze/Tin Plating
PCB Header	PBT with glass (UL 94V-0) Brass/Tin Plating
Wire + Housing Seal	Silicone Rubber

Specifications

1	Circuits	1,2,3P
2	Pitch	5.8mm
3	Rated Voltage	300V
4	Rated Current	10A max.
5	Withstand Voltage	AC1700V r.m.s.
6	Contact Resistance	10m Ω max.
7	Insulation Resistance	1000M Ω min. /DC 500 V
8	Temperature Range	-40°C ~+ 105°C
9	Waterproof Grade	IP67
1 0	PCB Thickness	1.6mm

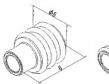
Terminals

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Part Number	Material	Wire Range	Inside Dia	PCS/Reel	Type
570-290-711	Brass	0.3-0.5mm ² (AWG #22~#20)	Ø2.7 max	4,000	Male
570-290-721	Brass	0.3-0.5mm ²	Ø2.7 max	4.000	Female
570-291-721	Phos.Br*	(AWG #22~#20)	WZ.7 IIIdX	4,000	remale
570-290-731	Brass	0.5-1.25mm²	Ø3.1 max	4.000	Male
570-291-731	Phos.Br*	(AWG #20~#16)	Ø3.1 IIIax	4,000	iviale
570-290-741	Brass	0.5-1.25mm²	Ø3.1 max	4.000	Female
570-291-741	Phos.Br*	(AWG #20~#16)	Ø3.1 IIIax	4,000	remale
570-290-751	Brass	2.0mm ² (AWG #14)	Ø3.1 max	4,000	Male
570-290-761	Brass	2.0mm ² (AWG #14)	Ø3.1 max	4,000	Female

^{*}Phosphor Bronze terminals are available in special order Terminals are also available in smaller strip lengths

Wire Seal

Part Number	Ins. Dia.	С	olor	Pcs
570-260-001	Ø 1.7 ~ 2.1	В	lack	1,000
570-260-002	Ø 2.1 ~ 2.7	E	Blue	1,000
570-260-003	Ø 2.1 ~ 2.7	Е	Blue	1,000
570-260-004	Ø 2.7 ~ 3.1	В	rown	1,000
570-260-001 570-260-002	570-260-00	570-260-003 570-260-0		260-004





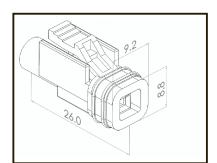


570 Series



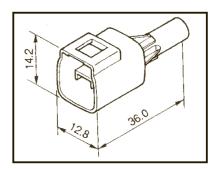
Female Housing

570-001-000-200



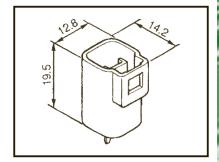
Male Housing

570-001-000-100

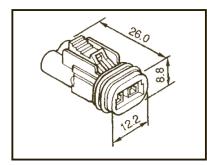


PCB Header

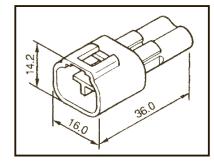
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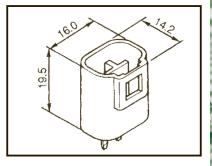
570-002-000-200



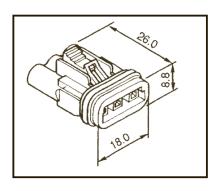
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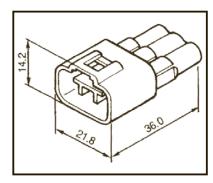
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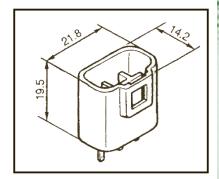
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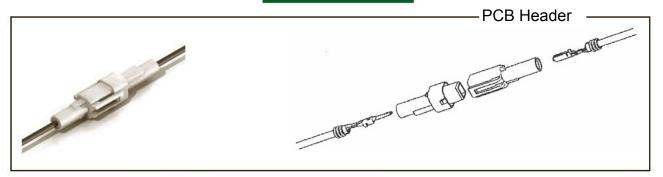


570-003-000-100



570-003-420-101





Features

- •Rated current 12A Max
- •Fully waterproof solution for single position
- Accommodates wide range of wire sizes
- ·Available with wire already installed

Materials

Housing	PBT (UL 94V-0)
Terminal	Brass, Phosphor Bronze/Tin Plating
Wire + Housing Seal	Silicone Rubber

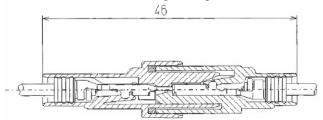
Specifications

1	Circuits	1P	
2	Rated Voltage	300∨	
3	Rated Current	12A max.	
4	Withstand Voltage	AC1700V r.m.s.	
5	Contact Resistance	10m Ω max.	
6	Insulation Resistance	1000M Ω min. /DC 500 V	
7	Temperature Range	-40°C ~+ 105°C	
8	Waterproof Grade	IP67	

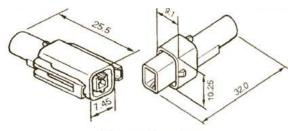
Wire Seal

Part Number	Ins. Dia.	Color	Pcs
570-260-001	Ø 1.7 ~ 2.1	Black	1,000
570-260-002	Ø 2.1 ~ 2.7	Blue	1,000
570-260-003	Ø 2.1 ~ 2.7	Blue	1,000
570-260-004	Ø 2.7 ~ 3.1	Brown	1,000

Assembly Layout



568-001-000-200 568-001-000-100



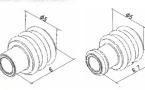
Terminals

Part Number	Material	Wire Range	Inside Dia	PCS/Reel	Type
570-290-711	Brass	0.3-0.5mm ² (AWG #22~#20)	Ø2.7 max	4,000	Male
570-290-721	Brass	0.3-0.5mm²	Ø2.7 max	4,000	Female
570-291-721	Phos.Br*	(AWG #22~#20)			
570-290-731	Brass	0.5-1.25mm ² (AWG #20~#16)	Ø3.1 max	4.000	Male
570-291-731	Phos.Br*		DJ. I IIIdx	4,000	iviale
570-290-741	Brass	0.5-1.25mm ²	Ø3.1 max	4.000	Female
570-291-741	Phos.Br*	(AWG #20~#16)	DJ. I IIIax	4,000	Terriale
570-290-751	Brass	2.0mm ² (AWG #14)	Ø3.1 max	4,000	Male
570-290-761	Brass	2.0mm ² (AWG #14)	Ø3.1 max	4,000	Female

570-260-001 570-260-002

570-260-003

570-260-004





^{*}Phosphor Bronze terminals are available in special order Terminals are also available in smaller strip lengths

Tools for Waterproof Connectors



Automatic Contact Crimp Machine

- Applicators available to crimp all series contacts
- All required guards for operator safety
- Easy access for all setting changes
- Foot switch to initiate crimp cycle
- Mounts to any bench surface
- Quick change applicators allow for fast conversions from one contact type to another



Hand Crimp Tool

- Manual hand crimp tool
- Cuts the contacts from the carrier strip

Contact Ejection Tool

Tool to remove previously inserted contact from connector housing

Contact EDAC customer service for more information



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