



SINGLE POLE POWER CONNECTORS

SINGLE POLE BAYONET CONNECTOR UP TO 1000A RATED CURRENT







About Us





Since 1952, Radiall Sa have been enabling the future through collaboration with our customers. The results are a range of innovative and award-winning products that customers trust for unrivaled repeatability and performance.

Radiall Sa are a global company with facilities around the world that specializes in manufacturing the highest quality interconnect components to support the most demanding applications.

At Radiall, you can rely on us to be the industry's global market leader.



VanSystem was a company founded in Lombardy - Italy, which has been operating since 1985 in the industrial market. Since 2015 VanSystem is a Radiall company.

Besides connectors with screw or bayonet coupling complying with the Mil-DTL-5015 standard, we designs and manufactures non-standard products for special applications.

One of our's strong points is an agile and dynamic organizational structure which enables direct and constant interaction with customers in order to meet all their requirements and build solid, long-term partnerships. Our team's professionalism, skill and commitment are at your service to help you achieve the solution you are looking for.

Radiall Italia S.r.l. Quality System is gualified according to ISO 9001:2015 and ISO/TS 22163:2017







PWBS Connectors - Introduction

Single pole bayonet connector up to 1000A rated current:

PWBS Single pole bayonet connector has been developed for motor and power connection in Railway application up to 1000A. Suitable for harsh environments, could be used for car-to-car jumpers, power distributions and traction motors. The rubber coupling nut allows this connector to be used in severe outdoor connections and harsh ambient conditions.

Customized power connectors solution could be developed to suit your needs.

APPLICATIONS

- Railway
- Energy
- Naval
- Industrial









PWBS Connectors - Introduction

Single pole bayonet connector up to 1000A rated current:



Key characteristics:

- For harsh environments (for outdoor use): waterproof connection, dust proof and corrosion resistant
- Robust Connection, fully protected connectors: no risk to damage the contacts thanks the robust shell
- Copper alloy Silver plating, can be supplied with one or two contacting band
- Suitable for 12 polarizations to prevent un-correct coupling
- Backshell and accessories for fastening cable/conduit fixation
- Working temperature -60°C ÷ 180°C (according to the inserts material)
- EMI protection with grounding finger, conductive plating and the proper rear accessory
- Socket contacts with touch proof protection (type 30)
- Fire resistant and halogen free compound. Qualified according to EN 45545-2







PWBS Connectors - Introduction

Single pole bayonet connector up to 1000A rated current:

International Standard Document Compliance

- EN 50124-1: Railway applications Insulation coordination
- IEC 60077-1: Railway applications Electric equipment for rolling stock
- EN 45545-2: Railway applications Fire protection on railway vehicles
- NFPA 130 (ASTM E 162, ASTM E 662): Standard for Fixed Guideway Transit and Passenger Rail Systems
- UNI CEI 11170-3 : Guidelines for railway vehicle protection for tramways and with guided rail
- NFF 16-102: Railway Rolling Stock Fire Behavior
- EN 50467: Railway applications Rolling stock Electrical connectors, requirements and test methods
- IEC 61373: Railway applications. Rolling stock equipment. Shock and vibration tests
- VG 95234: Electrical connectors and plug-and-socket devices, connectors with coupling pressure-water tight, up to 245A
- IEC 60529: Degrees of protection provided by enclosures (IP Code)
- European Directive 2011/65: RoHS complying

Features and Benefits

Robust Connection

- Fully protected connectors: no risk to damage the contacts thanks the robust shell
- Supplied with grounding finger, conductive plating and the proper rear accessory
- Suitable for 12 polarizations to prevent un-correct coupling

Easy installation

- Fast and reliable coupling
- Backshell and accessories for fastening cable/conduit fixation

Suitable for harsh environments (adapted for outdoor use)

- Waterproof connection
- Dust proof
- Corrosion resistant

High level of performance

- Working temperature -60°C ÷ 180°C (according to the inserts material)
- EMI protection with grounding finger
- Socket contacts with touch proof protection (type 30)





PWBS Connectors - Characteristics

Electrical Characteristics

Working voltage	Size 32: • 750V (OV4) • 1.000V (OV3) • 1.500V (OV2) • 3.000V (OV2) with extended insulation	Size 40: • 1.500V (OV4) • 2.500V (OV3) • 3.000V (OV2)
Test Voltage (EN 60077-1)	up to 5.600V	
Working current	500A / 600A / 1.000A	
Air and creepage distances	According to EN 50124-1	
Contact resistance	< 0,5 mΩ	
Insulating resistance	> 5 GΩ	
Rated insulation voltage	1.800V Unm (OV4)	

Mechanical Characteristics

Coupling mechanism	Reverse bayonet
Mating endurance (IEC 61300-2-2)	500 mating cycles minimum
Shock and vibrations tests (EN 61373)	Category 2 bogie mounted

Environmental Characteristics

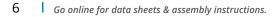
Connectors working temperature	 Standard -40°C ÷ +125°C High temperature -40°C ÷ +180°C Low temperature -60°C ÷ +125 °C
Class of temperature air (EN 50125-1)	T3 : -25°C +45°C (external to vehicle)
Protection degree (EN 60529)	IP67 (when mated) when used with proper backshell or accessories
Corrosion resistant	 500h** (F16 shell finishes) 1000h* (F26 shell finishes) 2000h (F12 shell finishes)

** 200h in case of components, panel and screws in stainless steel (galvanic corrosion)

* Please contact our sales office

Materials and Finishes

Shells	Aluminum alloy with different types of finishes protection				
Shell finishes	 F12 Black Hard Deep Anodization - not conductive (RoHS compliance) F16 CCF - Black passivation - conductive (RoHS compliance) F26 Black Hard Anodization (RoHS compliance) 				
Internal Insulator	Thermoplastic resin according to UL 94 V0 Flame retardant according to EN 45545-2 (HL3 R22 / R23) and NFPA 130 (ASTM E 162, ASTM E 662, BSS7239)				
Contacts	Copper alloy - Silver plating 3.5µ min. can be supplied with one or two contactation band				
Gasket	Flame retardant silicone compound				





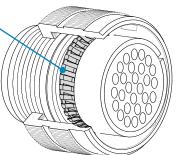
PWBS Connectors - Characteristics

Product Characteristics

Composed by three ramps on the external side and three stainless steel studs mounted inside the plug coupling nut. The coupling point, at the end of the ramp, is protected by a stainless steel roller.
Obtained by a wave washer installed under the plug connector coupling nut.
Unipolar central Contacting provided by multi-points contacts band
Provided by multi-points contacts band
Socket contacts, size 2-30, could be supplied with touch proof contacts protection
Metal clip
Suitable for 12 polarizations to prevent un-correct coupling
Plug connectors can be supplied with grounding finger Shell connectors can be finished in conductive passivation F16 CCF-Black
Besides guaranteeing an excellent mechanical strain relief keeping the cable in the center of the connector, these cable-clamps are provided with an internal conical rubber bushing ensuring waterproof protection. The screws in stainless steel have elastic rose-cut antivibration head.
Provided with gasket and iris spring connected to one another by an internal ring. When screwing the rear coupling nut, the gasket and the spring tighten around the cable or the hose, so to guarantee an excellent mechanical strain relief and water tightness.

SHIELDING SOLUTIONS

Plug connectors can be supplied with grounding finger (type 96 - 98 - 96GG - 98GG), when mated with receptacle connectors (type 01 - 030 - 03) and provided with rear accessories for shielded cables, the connectors have shielding characteristics according to VG95234 specs.









PWBS Connectors - Part number explanation

н	V PWBS	06	DA 40P1 P	A 12550 TP M40 F12 G S				
		-	-40°C ÷ +125°C					
н	Temperature	H	-40 C ÷ +125 C -40°C ÷ +180°C					
	range	L						
		L	-60°C ÷ +125°C	2 2 0001/ (01/2) for Shall 40				
		-		2 - 3.000V (OV2) for Shell 40				
V Working Voltage		V	3.000V (OV2) - with exte					
	voitage	V4	3.000V (OV4 - PD3) - with					
WBS	Series Code	A PWBS	750V (APTA) - with modi					
		06	Plug with metal coupling	g nut				
		61GG	Plug with rubber coated	coupling nut (short version)				
		65	Plug with Heavy Duty co	pupling nut				
		96	Plug with grounding fing	ger (shielding)				
06 Shell Type	961GG	Plug with grounding fing	ger and rubber coated coupling nut (short version)					
		02E	Front mounting receptacle with external ground connection					
		030	Rear mounting receptacle able to accept accessories					
		03	Rear mounting receptacle					
		01	Inline connector					
		AC	Backshell with MS 3057-C type cable clamp					
	Connector	АМК	Provided with gasket and an iris spring connected to one another by an internal ring. The iris spring is used to connect multicore jacketed cables or jacketed hoses					
DA	Class	AWN	Provided with gasket and an iris spring connected to one another, to guarantee an excellent mechanical strain relief and water tightness					
		DA		UNEF thread or internal metric thread				
		-	Without caps					
т	Caps**	т	With plastic caps					
	Incort	32P1	Shell size 32 single pole					
IOP1	Insert Arrangement	40P1	Shell size 40 single pole					
	Contact	S	Socket contacts					
Р	Contact Gender	Ρ	Pin contacts					
		Α	Shell size 32 - 0°	Shell size 40 - 0°				
		В	Shell size 32 - 30°	Shell size 40 - 36°				
		С	Shell size 32 - 60°	Shell size 40 - 72°				
		D	Shell size 32 - 90°	Shell size 40 - 108°				
		E	Shell size 32 - 120°	Shell size 40 - 144°				
	Polarization	F	Shell size 32 - 150°	Shell size 40 - 180°				
A	Code	G	Shell size 32 - 180°	Shell size 40 - 216°				
		Н	Shell size 32 - 210°	Shell size 40 - 252°				
	1	Shell size 32 - 240°	Shell size 40 - 288°					
		L	Shell size 32 - 270°	Shell size 40 - 324°				
		 M	Shell size 32 - 300°					
		N	Shell size 32 - 330°					

** If required

P/N Sample: PWBS 06AC 32P1SA 1-25-50 R8 F16



PWBS Connectors - Part number explanation

1-25-50 Single band, for wire section 50 mm² (for shell size 32 and V4 size 40) 1-25-120 Single band, for wire section 150 mm² (for shell size 32 and V4 size 40) 1-25-150 Single band, for wire section 150 mm² (for shell size 32 and V4 size 40) 1-25-150 Single band, for wire section 150 mm² (for shell size 32 and V4 size 40) 1-25-150 Single band, for wire section 150 mm² (for shell size 40) 1-20-50 Single band, for wire section 70mm² (for shell size 40) 1-20-70 Single band, for wire section 92mm² (for shell size 40) 1-20-720 Single band, for wire section 92mm² (for shell size 40) 1-20-730 Double band, for wire section 12mm² (for shell size 40) 1-20-740 Double band, for wire section 12mm² (for shell size 40) 2-30-750 Double band, for wire section 12mm² (for shell size 40) 2-30-750 Double band, for wire section 12mm² (for shell size 40) 2-30-750 Double band, for wire section 12mm² (for shell size 40) 2-30-750 Double band, for wire section 12mm² (for shell size 40) 2-30-750 Double band, for wire section 12mm² (for shell size 40) 2-30-762 Double band, for wire section 12mm² (for shell size 40) 2-30-762 Double band, for wire section 15mm² (for shell size 40) 2-30-762 <th></th> <th></th> <th></th>			
1-25-120 Single band, for wire section 120 mm² (for shell size 32 and V4 size 40) 1-25-150 Single band, for wire section 150 mm² (for shell size 23 and V4 size 40) 1-20-50 Single band, for wire section 150 mm² (for shell size 23 and V4 size 40) 1-20-50 Single band, for wire section 70mm² (for shell size 40) 1-20-50 Single band, for wire section 70mm² (for shell size 40) 1-20-70 Single band, for wire section 70mm² (for shell size 40) 1-20-712 Single band, for wire section 70mm² (for shell size 40) 1-20-72 Single band, for wire section 70mm² (for shell size 40) 1-20-73 Double band, for wire section 70mm² (for shell size 40) 2-30-75 Double band, for wire section 70mm² (for shell size 40) 2-30-75 Double band, for wire section 70mm² (for shell size 40) 2-30-75 Double band, for wire section 70mm² (for shell size 40) 2-30-75 Double band, for wire section 70m² (for shell size 40) 2-30-75 Double band, for wire section 70m² (for shell size 40) 2-30-75 Double band, for wire section 100m² (for shell size 40) 2-30-75 Double band, for wire section 100 M13 TP M10 M10 Threaded hole contacts (for 03/02 panel version only)			Single band, for wire section 50 mm ² (for shell size 32 and V4 size 40)
1-25-150 Single band, for wire section 150 mm² (for shell size 32 and V4 size 40) 1-25-185 Single band, for wire section 155 mm² (for shell size 40) 1-20-50 Single band, for wire section 95mm² (for shell size 40) 1-20-70 Single band, for wire section 95mm² (for shell size 40) 1-20-72 Single band, for wire section 95mm² (for shell size 40) 1-20-72 Single band, for wire section 120mm² (for shell size 40) 1-20-72 Single band, for wire section 72mm² (AWG 37) (for shell size 40) 1-20-71 Double band, for wire section 120mm² (for shell size 40) 2-30-70 Double band, for wire section 120mm² (for shell size 40) 2-30-71 Double band, for wire section 120mm² (for shell size 40) 2-30-720 Double band, for wire section 120mm² (for shell size 40) 2-30-730 Double band, for wire section 120mm² (for shell size 40) 2-30-740 Double band, for wire section 120mm² (for shell size 40) 2-30-755 Double band, for wire section 120mm² (for shell size 40) 2-30-764 Double band, for wire section 100m² (for shell size 40) 2-30-765 Double band, for wire section 100m² (for shell size 40) 2-30-766 Double band, for wire section 100m² (for shell size 40)		1-25-95	Single band, for wire section 95 mm ² (for shell size 32 and V4 size 40)
1-25-185 Single band, for wire section 185 mm² (for shell size 40) 1-20-50 Single band, for wire section 50mm² (for shell size 40) 1-20-70 Single band, for wire section 70mm² (for shell size 40) 1-20-92 Single band, for wire section 120mm² (for shell size 40) 1-20-92 Single band, for wire section 120mm² (for shell size 40) 1-20-92 Single band, for wire section 120mm² (for shell size 40) 2-30-70 Double band, for wire section 120mm² (for shell size 40) 2-30-70 Double band, for wire section 120mm² (for shell size 40) 2-30-150 Double band, for wire section 120mm² (for shell size 40) 2-30-150 Double band, for wire section 150mm² (for shell size 40) 2-30-150 Double band, for wire section 150mm² (for shell size 40) 2-30-262 Double band, for wire section 120mm² (for shell size 40) 2-30-253 Double band, for wire section MCM525 (for shell size 40) 2-30-262 Double band, for wire section MCM525 (for shell size 40) 2-30-535 Double band, for wire section MCM525 (for shell size 40) 2-30-535 Double band, for wire section MCM525 (for shell size 40) 2-30-546 Double band, for wire section MCM535 (for shell size 40) 2-30-550 Duble band, for wire section 100 MCM545 (for		1-25-120	Single band, for wire section 120 mm ² (for shell size 32 and V4 size 40)
1-20-50 Single band, for wire section 70mm² (for shell size 40) 1-20-70 Single band, for wire section 70mm² (for shell size 40) 1-20-72 Single band, for wire section 120mm² (for shell size 40) 1-20-120 Single band, for wire section 120mm² (for shell size 40) 1-20-121 Single band, for wire section 120mm² (for shell size 40) 2-30-70 Double band, for wire section 70mm² (for shell size 40) 2-30-70 Double band, for wire section 70mm² (for shell size 40) 2-30-70 Double band, for wire section 70mm² (for shell size 40) 2-30-70 Double band, for wire section 70mm² (for shell size 40) 2-30-7150 Double band, for wire section 70mm² (for shell size 40) 2-30-720 Double band, for wire section 70mm² (for shell size 40) 2-30-720 Double band, for wire section 120mm² (for shell size 40) 2-30-720 Double band, for wire section MCM252 (for shell size 40) 2-30-720 Double band, for wire section MCM252 (for shell size 40) 2-30-720 Double band, for wire section MCM252 (for shell size 40) 2-30-720 Double band, for wire section MCM252 (for shell size 40) 2-30-720 Double band, for wire section MCM252 (for shell size 40) 2-30-620		1-25-150	Single band, for wire section 150 mm ² (for shell size 32 and V4 size 40)
1-20-70 Single band, for wire section 70mm² (for shell size 40) 1-20-95 Single band, for wire section 95mm² (for shell size 40) 1-20-92 Single band, for wire section 95mm² (for shell size 40) 1-20-91 Single band, for wire section 70mm² (for shell size 40) 1-20-92 Single band, for wire section 70mm² (for shell size 40) 2-30-70 Double band, for wire section 70mm² (for shell size 40) 2-30-70 Double band, for wire section 70mm² (for shell size 40) 2-30-710 Double band, for wire section 70mm² (for shell size 40) 2-30-720 Double band, for wire section 120mm² (for shell size 40) 2-30-730 Double band, for wire section 70mm² (for shell size 40) 2-30-740 Double band, for wire section 70mm² (for shell size 40) 2-30-753 Double band, for wire section 70mm² (for shell size 40) 2-30-762 Double band, for wire section MCM252 (for shell size 40) 2-30-753 Double band, for wire section MCM252 (for shell size 40) 2-30-646 Double band, for wire section MCM252 (for shell size 40) 2-30-645 Double band, for wire section MCM252 (for shell size 40) 2-30-646 Double band, for wire section MCM252 (for shell size 40) 2-30-646		1-25-185	Single band, for wire section 185 mm ² (for shell size 32 and V4 size 40)
1-20-95 Single band, for wire section 95mm² (for shell size 40) 1-20-120 Single band, for wire section 12mm² (for shell size 40) 1-20-92 Single band, for wire section 92mm² - AWG 3/0 (for shell size 40) 1-20-112 Single band, for wire section 12mm² - AWG 3/0 (for shell size 40) 2-30-70 Double band, for wire section 70mm² (for shell size 40) 2-30-70 Double band, for wire section 12mm² - AWG 3/0 (for shell size 40) 2-30-120 Double band, for wire section 12mm² (for shell size 40) 2-30-120 Double band, for wire section 12mm² (for shell size 40) 2-30-120 Double band, for wire section 18mm² (for shell size 40) 2-30-120 Double band, for wire section 18mm² (for shell size 40) 2-30-120 Double band, for wire section MCM525 (for shell size 40) 2-30-262 Double band, for wire section MCM535 (for shell size 40) 2-30-646 Double band, for wire section MCM535 (for shell size 40) 2-30-646 Double band, for wire section MCM535 (for shell size 40) 2-30-646 Double band, for wire section MCM542 (for shell size 40) 2-30-647 M10 Threaded hole contacts (for 03/02E panel version only) TH M12 Threaded hole contacts (for 03/02E panel version only) TH M2 (col cable clamp 16C with		1-20-50	Single band, for wire section 50mm ² (for shell size 40)
1-20-120 Single band, for wire section 120mm² (for shell size 40) 1-20-92 Single band, for wire section 92mm² - AWG 3/0 (for shell size 40) 1-20-112 Single band, for wire section 112mm² - AWG 3/0 (for shell size 40) 2-30-70 Double band, for wire section 70mm² (for shell size 40) 2-30-710 Double band, for wire section 120mm² (for shell size 40) 2-30-120 Double band, for wire section 120mm² (for shell size 40) 2-30-120 Double band, for wire section 150mm² (for shell size 40) 2-30-120 Double band, for wire section 150mm² (for shell size 40) 2-30-120 Double band, for wire section 120mm² (for shell size 40) 2-30-120 Double band, for wire section 120mm² (for shell size 40) 2-30-240 Double band, for wire section MCM262 (for shell size 40) 2-30-562 Double band, for wire section MCM262 (for shell size 40) 2-30-564 Double band, for wire section MCM262 (for shell size 40) 2-30-565 Double band, for wire section MCM262 (for shell size 40) 2-30-564 Double band, for wire section MCM262 (for shell size 40) 2-30-565 Double band, for wire section MCM262 (for shell size 40) 2-30-566 Double band, for wire section MCM262 (for shell size 40) TH M12 Threaded hole contacts		1-20-70	Single band, for wire section 70mm ² (for shell size 40)
1-20-92 Single band, for wire section 92mm² - AWG 3/0 (for shell size 40) 1-20-112 Single band, for wire section 112mm² - AWG 3/0 (for shell size 40) 2-30-70 Double band, for wire section 70mm² (for shell size 40) 2-30-95 Double band, for wire section 95mm² (for shell size 40) 2-30-120 Double band, for wire section 150mm² (for shell size 40) 2-30-150 Double band, for wire section 150mm² (for shell size 40) 2-30-262 Double band, for wire section 120mm² (for shell size 40) 2-30-262 Double band, for wire section 120mm² (for shell size 40) 2-30-262 Double band, for wire section MCM535 (for shell size 40) 2-30-262 Double band, for wire section MCM646 (for shell size 40) 2-30-646 Double band, for wire section MCM535 (for shell size 40) 2-30-646 Double band, for wire section MCM646 (for shell size 40) 7 TH M12 Threaded hole contacts (for 03/02E panel version only) TH M12 Threaded hole contacts (for 03/02E panel version only) CL CL Crimp Lug - - UNEF thread R12 R12 (AC) cable clamp 16C with reduction (Ø 10,5 - 18,5mm) R14 (AC) cable clamp 16C (with reduction (Ø 12,5 - 20,8mm) R14		1-20-95	Single band, for wire section 95mm ² (for shell size 40)
M40 Contact Type 1-20-112 Single band, for wire section 112mm² - AWG 4/0 (for shell size 40) 2-30-70 Double band, for wire section 95mm² (for shell size 40) 2-30-95 Double band, for wire section 120mm² (for shell size 40) 2-30-120 Double band, for wire section 120mm² (for shell size 40) 2-30-135 Double band, for wire section 1120mm² (for shell size 40) 2-30-240 Double band, for wire section 145mm² (for shell size 40) 2-30-253 Double band, for wire section 140mm² (for shell size 40) 2-30-262 Double band, for wire section MCM253 (for shell size 40) 2-30-535 Double band, for wire section MCM535 (for shell size 40) 2-30-546 Double band, for wire section MCM535 (for shell size 40) 2-30-546 Double band, for wire section MCM545 (for shell size 40) 2-30-546 Double band, for wire section MCM545 (for shell size 40) 2-30-546 Double band, for wire section MCM545 (for shell size 40) 2-30-547 Double band, for wire section MCM545 (for shell size 40) 2-30-546 Double band, for wire section MCM545 (for shell size 40) 2-30-546 Double band, for wire section MCM545 (for shell size 40) 2-30-547 Double band, for wire section MCM545 (for shell size 40) <		1-20-120	Single band, for wire section 120mm ² (for shell size 40)
M40 Cable entry Single band, for wire section 112mm ⁻ AWK 4/0 (for shell size 40) 2-30-70 Double band, for wire section 70mm ² (for shell size 40) 2-30-95 Double band, for wire section 150mm ² (for shell size 40) 2-30-120 Double band, for wire section 150mm ² (for shell size 40) 2-30-155 Double band, for wire section 185mm ² (for shell size 40) 2-30-240 Double band, for wire section 240mm ² (for shell size 40) 2-30-253 Double band, for wire section MCM525 (for shell size 40) 2-30-535 Double band, for wire section MCM545 (for shell size 40) 2-30-646 Double band, for wire section MCM545 (for shell size 40) 2-30-647 Double band, for wire section MCM545 (for shell size 40) 2-30-646 Double band, for wire section MCM545 (for shell size 40) 2-30-647 Double band, for wire section MCM545 (for shell size 40) 2-30-648 Double band, for wire section MCM545 (for shell size 40) 2-30-646 Double band, for wire section MCM545 (for shell size 40) 2-30-647 M12 Threaded hole contacts (for 03/02E panel version only) TH M12 Threaded hole contacts (for 03/02E panel version only) TP With touch proof contacts protection (for contact type 2-30 only) CL CL	12550 Contact Type	1-20-92	Single band, for wire section 92mm ² - AWG 3/0 (for shell size 40)
M40 Cable and, for wire section 95mm² (for shell size 40) 2-30-120 Double band, for wire section 120mm² (for shell size 40) 2-30-130 Double band, for wire section 150mm² (for shell size 40) 2-30-185 Double band, for wire section 1260mm² (for shell size 40) 2-30-262 Double band, for wire section 240mm² (for shell size 40) 2-30-535 Double band, for wire section MCM262 (for shell size 40) 2-30-646 Double band, for wire section MCM535 (for shell size 40) 2-30-646 Double band, for wire section MCM646 (for shell size 40) 2-30-646 Double band, for wire section 130/02E panel version only) TH M12 Threaded hole contacts (for 03/02E panel version only) TP With touch proof contacts protection (for contact type 2-30 only) CL CL Crimp Lug - UNEF thread R12 (AC) cable clamp 16C with reduction (Ø 10,5 - 18,5mm) R14 (AC) cable clamp 16C with reduction (Ø 12,5 - 20,8mm) R15 (AC) cable clamp 20C with reduction (Ø 18 - 25mm) R18 (AC) cable clamp 20C with reduction (Ø 12, 5 - 20,8mm) R19 (AC) cable clamp 20C (with reduction (Ø 12, 5 - 20,8mm) R14 (AC) cable	Contact Type	1-20-112	Single band, for wire section 112mm ² - AWG 4/0 (for shell size 40)
M40 Cable entry F12 Shell elam place lamp 160 wire section 120mm² (for shell size 40) 2-30-150 Double band, for wire section 150mm² (for shell size 40) 2-30-185 Double band, for wire section 240mm² (for shell size 40) 2-30-262 Double band, for wire section MCM262 (for shell size 40) 2-30-264 Double band, for wire section MCM263 (for shell size 40) 2-30-646 Double band, for wire section MCM646 (for shell size 40) 2-30-646 Double band, for wire section MCM646 (for shell size 40) 2-30-646 Double band, for wire section MCM646 (for shell size 40) 2-30-646 Double band, for wire section 120mr² (for shell size 40) 2-30-646 Double band, for wire section MCM646 (for shell size 40) 2-30-647 M10 Threaded hole contacts (for 03/02E panel version only) TP With touch proof contacts protection (for contact type 2-30 only) CL CL Crimp Lug - - UNEF thread R12 R12 (AC) cable clamp 16C with reduction (0 10,5 - 18,5mm) R14 (AC) cable clamp 16C (0 15,5 - 23,8mm) R15 (AC) cable clamp 20C with reduction (0 20 - 27mm) R16 (AC) cable clamp 20C (0 23,4 - 31,8mm) <tr< th=""><th></th><th>2-30-70</th><th>Double band, for wire section 70mm² (for shell size 40)</th></tr<>		2-30-70	Double band, for wire section 70mm ² (for shell size 40)
M40 Cable entry Cable clamp 16C with reduction (Ø 15,5 - 20,8mm) M40 Cable entry R12 (AC) cable clamp 20C with reduction (Ø 18 - 25mm) M40 Cable entry Cable clamp 24C (Ø 25,4 - 31,8mm) R12 (AC) cable clamp 24C (Ø 25,4 - 31,8mm) R13 CAC) cable clamp 24C (Ø 25,4 - 31,8mm) R14 (AC) cable clamp 24C (Ø 25,4 - 31,8mm) R14 (AC) cable clamp 24C (Ø 25,4 - 31,8mm) R14 (AC) cable clamp 20C with reduction (Ø 18 - 25mm) R14 (AC) cable clamp 20C (Ø 23,4 - 31,8mm) R15 (AC) cable clamp 24C (Ø 25,4 - 33,8mm) R18 (AC) cable clamp 24C (Ø 25,4 - 33,8mm) R12 (AC) cable clamp 20C with reduction (Ø 18 - 25mm) R18 (AC) cable clamp 20C with reduction (Ø 20 - 27mm) R12 (AC) cable clamp 20C with reduction (Ø 20 - 27mm) R12 (AC) cable clamp 20C with reduction (Ø 18 - 25mm) R14 (AC) cable clamp 20C with reduction (Ø 18 - 25mm) R18 (AC) cable clamp 20C with reduction (Ø 18 - 25mm) R18 (AC) cable clamp 20C with reduction (Ø 18 - 25mm) R18 (AC) cable clamp 20C with reduction (Ø 18 - 25mm) <th></th> <th>2-30-95</th> <th>Double band, for wire section 95mm² (for shell size 40)</th>		2-30-95	Double band, for wire section 95mm ² (for shell size 40)
2-30-185 Double band, for wire section 185mm* (for shell size 40) 2-30-240 Double band, for wire section 240mm² (for shell size 40) 2-30-262 Double band, for wire section MCM262 (for shell size 40) 2-30-535 Double band, for wire section MCM535 (for shell size 40) 2-30-646 Double band, for wire section MCM536 (for shell size 40) 7 TH M12 Threaded hole contacts (for 03/02E panel version only) TP Contact Type TH10 M10 Threaded hole contacts (for 03/02E panel version only) TP With touch proof contacts protection (for contact type 2-30 only) CL CL crimp Lug - UNEF thread R12 (AC) cable clamp 16C with reduction (Ø 10,5 - 18,5mm) R14 (AC) cable clamp 16C (Ø 15,5 - 23,8mm) R17 (AC) cable clamp 20C with reduction (Ø 12,5 - 20,8mm) R18 (AC) cable clamp 20C with reduction (Ø 12,0 - 27mm) R19 (AC) cable clamp 20C with reduction (Ø 12,0 - 27mm) R24 (AC) cable clamp 20C (Ø 23,4 - 31,8mm) R24 (AC) cable clamp 20C (Ø 23,4 - 31,8mm) R24 (AC) cable clamp 22C (Ø 30 - 41,3mm) XX (AMC cable clamp 28C (Ø 30 - 41,3mm)		2-30-120	Double band, for wire section 120mm ² (for shell size 40)
2-30-240 Double band, for wire section 240mm² (for shell size 40) 2-30-262 Double band, for wire section MCM252 (for shell size 40) 2-30-535 Double band, for wire section MCM535 (for shell size 40) 2-30-646 Double band, for wire section MCM535 (for shell size 40) 2-30-647 Double band, for wire section MCM545 (for shell size 40) TP M12 Threaded hole contacts (for 03/02E panel version only) TH M12 Threaded hole contacts (for 03/02E panel version only) TP With touch proof contacts protection (for contact type 2-30 only) CL CL Crimp Lug - UNEF thread R12 (AC) cable clamp 16C with reduction (Ø 10,5 - 18,5mm) R14 (AC) cable clamp 16C (Ø 15,5 - 23,8mm) R15 (AC) cable clamp 16C (Ø 15,5 - 23,8mm) R16 (AC) cable clamp 20C with reduction (Ø 18 - 25mm) R17 (AC) cable clamp 20C with reduction (Ø 20 - 27mm) R20 (AC) cable clamp 20C (Ø 23,4 - 31,8mm) R24 (AC) cable clamp 20C (Ø 23,4 - 31,8mm) R24 (AC) cable clamp 24C (Ø 25,4 - 35mm) R28 (AC) cable clamp 24C (Ø 25,4 - 35mm) R28 (AC) cable clamp 26C (Ø 30 - 41,3mm) XX (AM		2-30-150	Double band, for wire section 150mm ² (for shell size 40)
2-30-262 Double band, for wire section MCM262 (for shell size 40) 2-30-535 Double band, for wire section MCM535 (for shell size 40) 2-30-646 Double band, for wire section MCM646 (for shell size 40) TH M12 Threaded hole contacts (for 03/02E panel version only) TH M10 Threaded hole contacts (for 03/02E panel version only) TP Contact Type TH M10 Threaded hole contacts (for 03/02E panel version only) TP With touch proof contacts protection (for contact type 2-30 only) CL CL Crimp Lug - UNEF thread R12 (AC) cable clamp 16C with reduction (Ø 10,5 - 18,5mm) R14 (AC) cable clamp 16C (Ø 15,5 - 23,8mm) R15 (AC) cable clamp 16C oversized (Ø 18 - 25mm) R18 (AC) cable clamp 20C (Ø 23,4 - 31,8mm) R17 (AC) cable clamp 20C (Ø 23,4 - 31,8mm) R24 (AC) cable clamp 20C (Ø 23,4 - 31,8mm) R24 (AC) cable clamp 20C (Ø 23,4 - 35mm) R28 (AC) cable clamp 20C (Ø 23,4 - 35mm) R28 (AC) cable clamp 20C (Ø 23,4 - 35mm) R28 (AC) cable clamp 20C (Ø 23,4 - 35mm) R28 (AC) cable clamp 20C (Ø 23,4 - 35mm) R28		2-30-185	Double band, for wire section 185mm ² (for shell size 40)
2-30-535 Double band, for wire section MCM535 (for shell size 40) 2-30-646 Double band, for wire section MCM646 (for shell size 40) TH M12 Threaded hole contacts (for 03/02E panel version only) TH0 M10 Threaded hole contacts (for 03/02E panel version only) TP With touch proof contacts protection (for contact type 2-30 only) CL CL Crimp Lug - UNEF thread R12 (AC) cable clamp 16C with reduction (Ø 10,5 - 18,5mm) R14 (AC) cable clamp 16C with reduction (Ø 12,5 - 20,8mm) R16 (AC) cable clamp 16C with reduction (Ø 12,5 - 20,8mm) R17 (AC) cable clamp 16C with reduction (Ø 12,5 - 20,8mm) R18 (AC) cable clamp 16C oversized (Ø 18 - 25mm) R19 (AC) cable clamp 20C with reduction (Ø 20 - 27mm) R20 (AC) cable clamp 20C with reduction (Ø 20 - 27mm) R24 (AC) cable clamp 20C (Ø 23,4 - 31,8mm) R24 (AC) cable clamp 28C (Ø 30 - 41,3mm) XX (AMK-AWN) clamping range according to wire diameter (please contact our sales office) M32 (DA) internal thread M32 M40 (DA) internal thread M32 supplied with metal cable gland - clamping range (Ø 11-21mm) M40 (DA) internal thread M40 sup		2-30-240	Double band, for wire section 240mm ² (for shell size 40)
2-30-646 Double band, for wire section MCM646 (for shell size 40) TP Contact Type TH M12 Threaded hole contacts (for 03/02E panel version only) TP With touch proof contacts protection (for contact type 2-30 only) CL CL C Crimp Lug - UNEF thread R12 (AC) cable clamp 16C with reduction (Ø 10,5 - 18,5mm) R14 (AC) cable clamp 16C with reduction (Ø 12,5 - 20,8mm) R16 (AC) cable clamp 16C (Ø 15,5 - 23,8mm) R17 (AC) cable clamp 20C with reduction (Ø 18 - 25mm) R18 (AC) cable clamp 20C (Ø 23,4 - 31,8mm) R24 (AC) cable clamp 20C (Ø 30 - 41,3mm) XX (AMK-AWN) clamping range according to wire diameter (please contact our sales office) M32 (DA) internal thread M32 M40 (DA) internal thread M32 M40 (DA) internal thread M32 supplied with metal cable gland - clamping range (Ø 11-21mm) M40 (DA) internal thread M40 supplied with metal cable gland - clamping range (Ø 19-28mm) F12 Shell finish F12 Black Hard Deep Anodization - not conductive (RoHS compliance) F14 CF - Black passivation (<i>RoHS compliance</i>) - conductive F26		2-30-262	Double band, for wire section MCM262 (for shell size 40)
TP Contact Type TH M12 Threaded hole contacts (for 03/02E panel version only) TP Contact Type TH10 M10 Threaded hole contacts (for 03/02E panel version only) CL CL CL Crimp Lug CL CL VINEF thread R12 (AC) cable clamp 16C with reduction (Ø 10,5 - 18,5mm) R14 R14 (AC) cable clamp 16C with reduction (Ø 12,5 - 20,8mm) R16 (AC) cable clamp 16C with reduction (Ø 12,5 - 20,8mm) R14 (AC) cable clamp 16C with reduction (Ø 18, 25mm) R17 (AC) cable clamp 16C with reduction (Ø 18 - 25mm) R17 (AC) cable clamp 20C with reduction (Ø 18 - 25mm) R18 (AC) cable clamp 20C with reduction (Ø 20 - 27mm) R18 (AC) cable clamp 20C with reduction (Ø 20 - 27mm) R19 (AC) cable clamp 20C (Ø 23,4 - 31,8mm) R24 (AC) cable clamp 28C (Ø 30 - 41,3mm) XX (AMK-AWN) clamping range according to wire diameter (please contact our sales office) M32 (DA) internal thread M40 MH32 (DA) internal thread M42 M40 (DA) internal thread M40 MH40 (DA) internal thread M40 supplied with metal cable gland - clamping range (Ø 19-28mm) F12 Black Hard Deep Anodization - not conductive (RoHS compliance) F16 CCF - Black passivat		2-30-535	Double band, for wire section MCM535 (for shell size 40)
TP Contact Type TH10 M10 Threaded hole contacts (for 03/02E panel version only) TP With touch proof contacts protection (for contact type 2-30 only) CL CL Crimp Lug UNEF thread R12 (AC) cable clamp 16C with reduction (Ø 10,5 - 18,5mm) R14 (AC) cable clamp 16C with reduction (Ø 12,5 - 20,8mm) R16 (AC) cable clamp 16C (Ø 15,5 - 23,8mm) R17 (AC) cable clamp 16C oversized (Ø 18 - 25mm) R18 (AC) cable clamp 20C with reduction (Ø 20 - 27mm) R19 (AC) cable clamp 20C (W 23,4 - 31,8mm) R24 (AC) cable clamp 24C (Ø 25,4 - 35mm) R28 (AC) cable clamp 28C (Ø 30 - 41,3mm) XX (AMK-AWN) clamping range according to wire diameter (please contact our sales office) M32 (DA) internal thread M32 M40 (DA) internal thread M32 M40 (DA) internal thread M40 MH32 (DA) internal thread M40 supplied with metal cable gland - clamping range (Ø 11-21mm) MH40 (DA) internal thread M40 supplied with metal cable gland - clamping range (Ø 19-28mm) F12 Black Hard Deep Anodization - not conductive (RoHS compliance) F16 CCF - Black passivation (<i>RoHS compliance</i>) - conductive		2-30-646	Double band, for wire section MCM646 (for shell size 40)
TP With touch proof contacts protection (for contact type 2-30 only) CL CL Crimp Lug • UNEF thread R12 (AC) cable clamp 16C with reduction (Ø 10,5 - 18,5mm) R14 (AC) cable clamp 16C with reduction (Ø 12,5 - 20,8mm) R16 (AC) cable clamp 16C (Ø 15,5 - 23,8mm) R17 (AC) cable clamp 16C oversized (Ø 18 - 25mm) R18 (AC) cable clamp 20C with reduction (Ø 20 - 27mm) R19 (AC) cable clamp 20C (Ø 23,4 - 31,8mm) R20 (AC) cable clamp 24C (Ø 25,4 - 35mm) R28 (AC) cable clamp 28C (Ø 30 - 41,3mm) XX (AMK-AWN) clamping range according to wire diameter (please contact our sales office) M32 (DA) internal thread M32 M40 (DA) internal thread M32 M40 (DA) internal thread M32 supplied with metal cable gland - clamping range (Ø 11-21mm) MH40 (DA) internal thread M40 supplied with metal cable gland - clamping range (Ø 19-28mm) F12 Black Hard Deep Anodization - not conductive (RoHS compliance) F13 Shell finish F26 Hard anodization (<i>RoHS compliance</i>) - conductive		тн	M12 Threaded hole contacts (for 03/02E panel version only)
M40 Cable entry 		TH10	M10 Threaded hole contacts (for 03/02E panel version only)
M40 Cable entry R12 (AC) cable clamp 16C with reduction (Ø 10,5 - 18,5mm) R14 (AC) cable clamp 16C with reduction (Ø 12,5 - 20,8mm) R16 (AC) cable clamp 16C (Ø 15,5 - 23,8mm) R17 (AC) cable clamp 16C oversized (Ø 18 - 25mm) R18 (AC) cable clamp 20C with reduction (Ø 18 - 25mm) R19 (AC) cable clamp 20C with reduction (Ø 20 - 27mm) R20 (AC) cable clamp 20C (Ø 23,4 - 31,8mm) R24 (AC) cable clamp 24C (Ø 25,4 - 35mm) R28 (AC) cable clamp 28C (Ø 30 - 41,3mm) XX (AMK-AWN) clamping range according to wire diameter (please contact our sales office) M32 (DA) internal thread M32 M40 (DA) internal thread M32 M40 (DA) internal thread M32 supplied with metal cable gland - clamping range (Ø 11-21mm) MH40 (DA) internal thread M40 supplied with metal cable gland - clamping range (Ø 19-28mm) F12 Black Hard Deep Anodization - not conductive (RoHS compliance) F12 Black Hard Deep Anodization - not conductive (RoHS compliance) F26 Hard anodization (<i>RoHS compliance</i>) - conductive	TP Contact Type	ТР	With touch proof contacts protection (for contact type 2-30 only)
M40Cable entryR12(AC) cable clamp 16C with reduction (Ø 10,5 - 18,5mm)R14(AC) cable clamp 16C with reduction (Ø 12,5 - 20,8mm)R16(AC) cable clamp 16C (Ø 15,5 - 23,8mm)R17(AC) cable clamp 16C oversized (Ø 18 - 25mm)R18(AC) cable clamp 20C with reduction (Ø 18 - 25mm)R19(AC) cable clamp 20C with reduction (Ø 20 - 27mm)R20(AC) cable clamp 20C (Ø 23,4 - 31,8mm)R24(AC) cable clamp 24C (Ø 25,4 - 35mm)R28(AC) cable clamp 28C (Ø 30 - 41,3mm)XX(AMK-AWN) clamping range according to wire diameter (please contact our sales office)M32(DA) internal thread M32M40(DA) internal thread M40MH40(DA) internal thread M40 supplied with metal cable gland - clamping range (Ø 11-21mm)MH40(DA) internal thread M40 supplied with metal cable gland - clamping range (Ø 19-28mm)F12Black Hard Deep Anodization - not conductive (RoHS compliance)F14CF - Black passivation (<i>RoHS compliance</i>) - conductive		CL	CL Crimp Lug
M40Cable entryR14(AC) cable clamp 16C with reduction (Ø 12,5 - 20,8mm)R16(AC) cable clamp 16C (Ø 15,5 - 23,8mm)R17(AC) cable clamp 16C oversized (Ø 18 - 25mm)R18(AC) cable clamp 20C with reduction (Ø 18 - 25mm)R19(AC) cable clamp 20C (Ø 23,4 - 31,8mm)R20(AC) cable clamp 20C (Ø 23,4 - 31,8mm)R24(AC) cable clamp 24C (Ø 25,4 - 35mm)R28(AC) cable clamp 28C (Ø 30 - 41,3mm)XX(AMK-AWN) clamping range according to wire diameter (please contact our sales office)M32(DA) internal thread M32M40(DA) internal thread M40MH40(DA) internal thread M40 supplied with metal cable gland - clamping range (Ø 11-21mm)MH40(DA) internal thread M40 supplied with metal cable gland - clamping range (Ø 19-28mm)F12Black Hard Deep Anodization - not conductive (RoHS compliance)F14Hard anodization (<i>RoHS compliance</i>) - conductiveF26Hard anodization (<i>RoHS compliance</i>)		-	UNEF thread
M40R16(AC) cable clamp 16C (Ø 15,5 - 23,8mm)R17(AC) cable clamp 16C oversized (Ø 18 - 25mm)R18(AC) cable clamp 20C with reduction (Ø 18 - 25mm)R19(AC) cable clamp 20C with reduction (Ø 20 - 27mm)R20(AC) cable clamp 20C (Ø 23,4 - 31,8mm)R24(AC) cable clamp 24C (Ø 25,4 - 35mm)R28(AC) cable clamp 28C (Ø 30 - 41,3mm)XX(AMK-AWN) clamping range according to wire diameter (please contact our sales office)M32(DA) internal thread M32M40(DA) internal thread M40MH32(DA) internal thread M40 supplied with metal cable gland - clamping range (Ø 11-21mm)MH40(DA) internal thread M40 supplied with metal cable gland - clamping range (Ø 19-28mm)F12Shell finishF16CCF - Black passivation (<i>RoHS compliance</i>) - conductiveF26Hard anodization (<i>RoHS compliance</i>)		R12	(AC) cable clamp 16C with reduction (Ø 10,5 – 18,5mm)
M40Cable entryR17(AC) cable clamp 16C oversized (Ø 18 – 25mm)R18(AC) cable clamp 20C with reduction (Ø 18 – 25mm)R19(AC) cable clamp 20C with reduction (Ø 20 – 27mm)R20(AC) cable clamp 20C (Ø 23,4 – 31,8mm)R24(AC) cable clamp 24C (Ø 25,4 – 35mm)R28(AC) cable clamp 28C (Ø 30 – 41,3mm)XX(AMK-AWN) clamping range according to wire diameter (please contact our sales office)M32(DA) internal thread M32M40(DA) internal thread M40MH32(DA) internal thread M40 supplied with metal cable gland - clamping range (Ø 11-21mm)MH40(DA) internal thread M40 supplied with metal cable gland - clamping range (Ø 19-28mm)F12Black Hard Deep Anodization - not conductive (RoHS compliance)F14Hard anodization (<i>RoHS compliance</i>) - conductive		R14	(AC) cable clamp 16C with reduction (Ø 12,5 – 20,8mm)
M40Cable entryR18(AC) cable clamp 20C with reduction (Ø 18 - 25mm) R19(AC) cable clamp 20C with reduction (Ø 20 - 27mm)R20(AC) cable clamp 20C (Ø 23,4 - 31,8mm) R24(AC) cable clamp 20C (Ø 25,4 - 35mm) R28(AC) cable clamp 24C (Ø 25,4 - 35mm)R28(AC) cable clamp 28C (Ø 30 - 41,3mm) XX(AC) cable clamp 28C (Ø 30 - 41,3mm) XX(AMK-AWN) clamping range according to wire diameter (please contact our sales office) M32M40(DA) internal thread M32M40(DA) internal thread M40MH32(DA) internal thread M32 supplied with metal cable gland - clamping range (Ø 11-21mm) MH40MH40MH40(DA) internal thread M40 supplied with metal cable gland - clamping range (Ø 19-28mm)F12Black Hard Deep Anodization - not conductive (RoHS compliance)F16CCF - Black passivation (<i>RoHS compliance</i>) - conductiveF26Hard anodization (<i>RoHS compliance</i>)		R16	(AC) cable clamp 16C (Ø 15,5 – 23,8mm)
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M40 Cable entry R20 (AC) cable clamp 20C (Ø 23,4 - 31,8mm) R24 (AC) cable clamp 24C (Ø 25,4 - 35mm) R28 (AC) cable clamp 28C (Ø 30 - 41,3mm) XX (AMK-AWN) clamping range according to wire diameter (please contact our sales office) M32 (DA) internal thread M32 M40 (DA) internal thread M40 MH32 (DA) internal thread M32 supplied with metal cable gland - clamping range (Ø 11-21mm) MH40 (DA) internal thread M40 supplied with metal cable gland - clamping range (Ø 19-28mm) F12 Black Hard Deep Anodization - not conductive (RoHS compliance) F16 CCF - Black passivation (<i>RoHS compliance</i>) - conductive F26 Hard anodization (<i>RoHS compliance</i>)		R18	(AC) cable clamp 20C with reduction (Ø 18 – 25mm)
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MH40 (DA) internal thread M40 supplied with metal cable gland - clamping range (Ø 19-28mm) F12 Black Hard Deep Anodization - not conductive (RoHS compliance) F16 CCF - Black passivation (RoHS compliance) - conductive F26 Hard anodization (RoHS compliance)		M40	(DA) internal thread M40
F12 Black Hard Deep Anodization - not conductive (RoHS compliance) F16 CCF - Black passivation (<i>RoHS compliance</i>) - conductive F26 Hard anodization (<i>RoHS compliance</i>)		MH32	(DA) internal thread M32 supplied with metal cable gland - clamping range (Ø 11-21mm)
F12 Shell finish F16 CCF - Black passivation (RoHS compliance) - conductive F26 Hard anodization (RoHS compliance)		MH40	(DA) internal thread M40 supplied with metal cable gland - clamping range (Ø 19-28mm)
F26 Hard anodization (RoHS compliance)	\bigcirc	F12	Black Hard Deep Anodization - not conductive (RoHS compliance)
	F12 Shell finish	F16	CCF - Black passivation (<i>RoHS compliance</i>) - conductive
		F26	Hard anodization (<i>RoHS compliance</i>)
	\bigcirc	G	With waterproof panel gasket
G Panel Gasket G3 With waterproof shielded panel gasket	G Panel Gasket	G3	With waterproof shielded panel gasket
Modification Code If required S Customization (Consult our sales office)	S Code	S	Customization (Consult our sales office)





PWBS Connectors - Contacts

Pin Crimp Contacts





Order Number	Short Description	Shell size	Multi- points Contact band	Wire Section mm²	AWG Cable size	Working current	Manual Crimping tool	Crimp Die	Stripping length (mm)
VS813001	CP485 1-25-50P**	32	***	50	-	600A	CRT-HT45*	CDI-ME14*	20
VS813002	CP485 1-25-95P**	32	***	95	-	600A	CRT-HT131****	CDI-ME24C	30
VS813003	CP485 1-25-120P**	32	***	120	-	600A	CRT-HT131****	CDI-ME29C	30
VS813004	CP485 1-25-150P**	32	***	150	-	600A	CRT-HT131****	CDI-ME37C	29
VS813005	CP485 1-25-185P**	32	***	185	-	600A	CRT-HT131****	CDI-ME37C	*
VS813006	CP485 1-20-50P**	40	***	50	-	500A	CRT-HT131****	CDI-ME17C* CDI-ME20C*	20
VS813007	CP485 1-20-70P**	40	***	70	-	500A	CRT-HT131****	CDI-ME20C* CDI-ME24C*	22* 24*
VS813008	CP485 1-20-95P**	40	***	95	-	500A	CRT-HT131****	CDI-ME24C	20
VS813009	CP485 1-20-120P**	40	***	120	-	500A	CRT-HT131****	CDI-ME29C	20
VS813010	CP485 1-20-92P**	40	***	92	3/0	500A	CRT-HT131****	CDI-ME24C	20
VS813011	CP485 1-20-112P**	40	***	112	4/0	500A	CRT-HT131****	CDI-ME30C	20
VS813012	CP485 2-30-95P	40	Double	95	-	1.000A	CRT-HT131****	CDI-ME24C	30
VS813013	CP485 2-30-120P	40	Double	120	-	1.000A	CRT-HT131****	CDI-ME29C	30
VS813014	CP485 2-30-150P	40	Double	150	-	1.000A	CRT-HT131****	CDI-ME37C	29
VS813015	CP485 2-30-185P	40	Double	185	-	1.000A	CRT-HT131****	*	*
VS813016	CP485 2-30-240P	40	Double	240	-	1.000A	CRT-HT131****	CDI-ME60C	40
VS813017	CP485 2-30-262P	40	Double	-	262 MCM	1.000A	CRT-HT131****	CDI-ME37C	27
VS813018	CP485 2-30-535P	40	Double	-	535 MCM	1.000A	CRT-HT131****	CDI-ME60C	40
VS813019	CP485 2-30-646P	40	Double	-	646 MCM	1.000A	CRT-HT131****	CDI-MK32C*	40

Please, consul our commercial office
 TP = can be supplied with touch proof protections
 On Socket contacts
 *** On alternative: CRT-HT120

Working current to be checked with the specific cable characteristics



PWBS Connectors - Contacts

Socket Crimp Contacts







Order Number	Short Description	Shell size	Multi- points Contact band	Wire Section mm²	AWG Cable size	Working current	Manual Crimping tool	Crimp Die	Stripping length (mm)
VS813020	CP485 1-25-50S	32	Single	50	-	600A	CRT-HT45*	CDI-ME14*	20
VS813021	CP485 1-25-95S	32	Single	95	-	600A	CRT-HT131****	CDI-ME24C	30
VS813022	CP485 1-25-120S	32	Single	120	-	600A	CRT-HT131****	CDI-ME29C	30
VS813023	CP485 1-25-150S	32	Single	150	-	600A	CRT-HT131****	CDI-ME37C	29
VS813024	CP485 1-25-185S	32	Single	185	-	600A	CRT-HT131****	CDI-ME37C	*
VS813025	CP485 1-20-50S	40	Single	50	-	500A	CRT-HT131****	CDI-ME17C* CDI-ME20C*	20
VS813026	CP485 1-20-70S	40	Single	70	-	500A	CRT-HT131****	CDI-ME20C* CDI-ME24C*	22* 24*
VS813027	CP485 1-20-95S	40	Single	95	-	500A	CRT-HT131****	CDI-ME24C	20
VS813028	CP485 1-20-120S	40	Single	120	-	500A	CRT-HT131****	CDI-ME29C	20
VS813029	CP485 1-20-92S	40	Single	92	3/0	500A	CRT-HT131****	CDI-ME24C	20
VS813030	CP485 1-20-112S	40	Single	112	4/0	500A	CRT-HT131****	CDI-ME30C	20
VS813031	CP485 2-30-95S**	40	***	95	-	1.000A	CRT-HT131****	CDI-ME24C	30
VS813032	CP485 2-30-120S**	40	***	120	-	1.000A	CRT-HT131****	CDI-ME29C	30
VS813033	CP485 2-30-150S**	40	***	150	-	1.000A	CRT-HT131****	CDI-ME37C	29
VS813034	CP485 2-30-185S**	40	***	185	-	1.000A	CRT-HT131****	*	*
VS813035	CP485 2-30-240S**	40	***	240	-	1.000A	CRT-HT131****	CDI-ME60C	40
VS813036	CP485 2-30-262S**	40	***	-	262 MCM	1.000A	CRT-HT131****	CDI-ME37C	27
VS813037	CP485 2-30-535S**	40	***	-	535 MCM	1.000A	CRT-HT131****	CDI-ME60C	40
VS813038	CP485 2-30-646S**	40	***	-	646 MCM	1.000A	CRT-HT131****	CDI-MK32C*	40

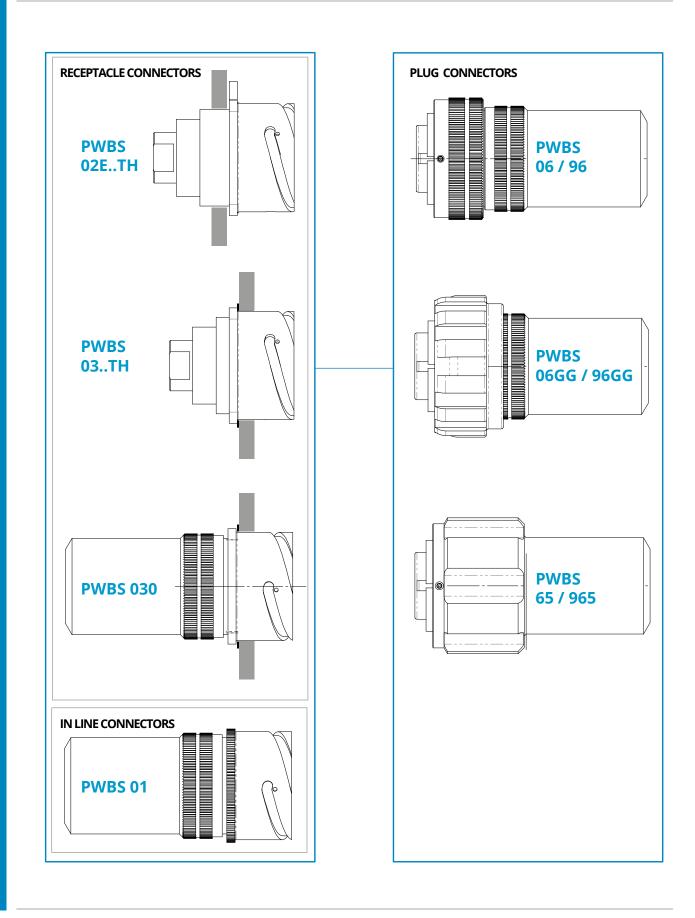
Please, consul our commercial office
 Contacts TP 2-30-xx = supplied with touch proof protections
 On Pin contacts
 On alternative: CRT-HT120

Working current to be checked with the specific cable characteristics





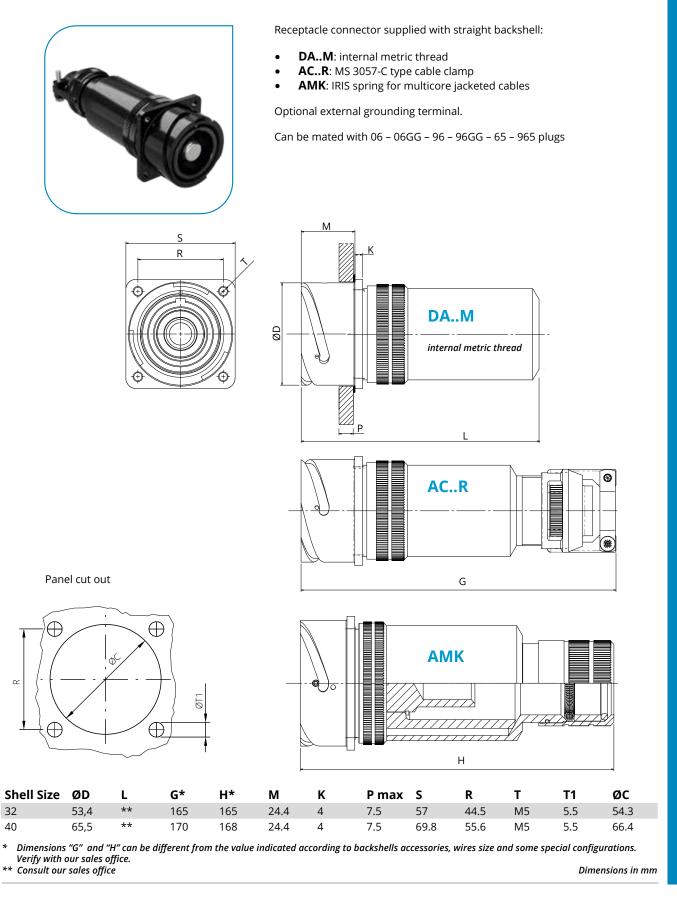
PWBS Connectors - Shell compatibility table





PWBS Connectors - 030 Shell

Rear Mounting Panel Receptacle With Ramps







PWBS Connectors - 03..TH Shell

Rear Mounting Panel Receptacle With Ramps. Contact With Rear Threaded Hole.

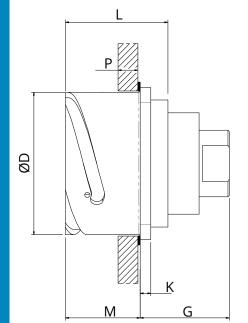


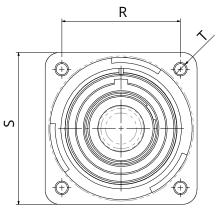


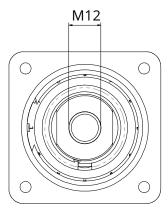
Receptacle connector unable to accept rear accessories.

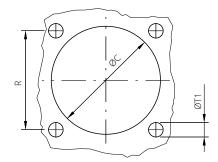
Optional external grounding terminal.

Can be mated with: 06 – 06GG – 96 – 96GG – 65 – 965 plugs.









Panel cut out

		L	М	к	G	P max	S	R	т	T1	ØC
32	53,4	38.4	24.4	4	34	7.5	57	44.5	M5	5.5	54.3
40	65,5	38.5	24.4	4	**	7.5	69.8	55.6	M5	5.5	66.4

Dimensions in mm

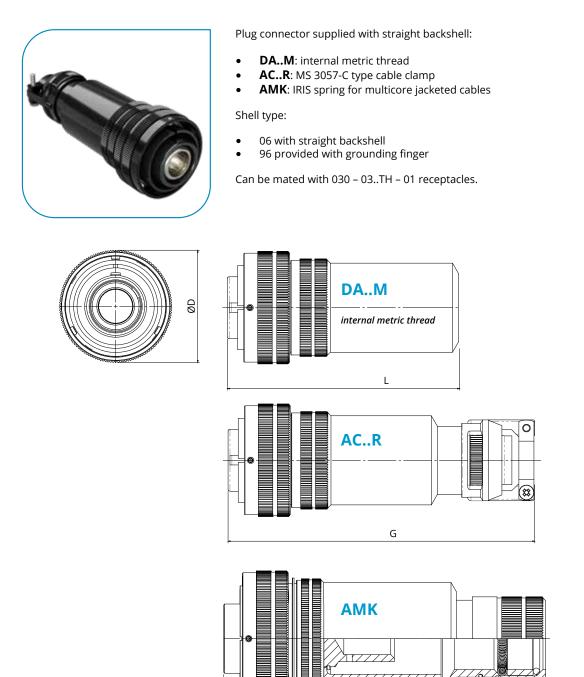


** Consult our sales office



PWBS Connectors - 06 / 96 Shell

Plug Connector With Bayonet Coupling Nut



Dimensions "G" and "H" can be different from the value indicated according to backshells accessories, wires size and some special configurations. * Verify with our sales office. Dimensions in mm

L **

**

н

G*

165

170

** Consult our sales office

Shell Size

32

40

ØD

60

72.4



H*

167

172



PWBS Connectors - 06GG / 96GG Shell

Plug Connector With Rubber Covered Bayonet Coupling Nut



The rubber covered coupling nut is able to protect against dust and impact.

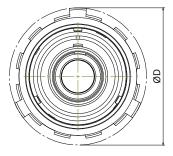
Plug connector supplied with straight backshell:

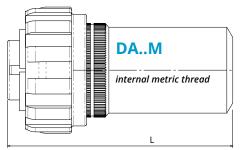
- DA..M: internal metric thread
- AC...R: MS 3057-C type cable clamp
- AMK: IRIS spring for multicore jacketed cables

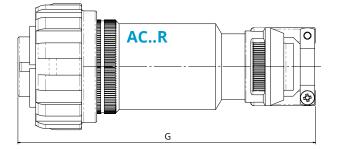
Shell type:

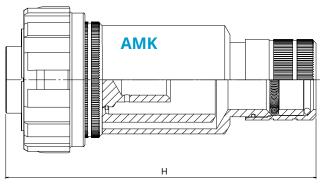
- 06 with straight backshell 96 provided with grounding finger •

Can be mated with 030 – 03..TH – 01 receptacles.









Shell Size	ØD	L	G*	H*	
32	76	**	165	167	
40	90	**	170	172	

Dimensions "G" and "H" can be different from the value indicated according to backshells accessories, wires size and some special configurations. * Verify with our sales office. Dimensions in mm

** Consult our sales office

PWBS Connectors - 65 / 965 Shell

Plug Connector With Heavy Duty Bayonet Coupling Nut



Connector with special coupling-nut particularly robust and suitable to be used with working gloves.

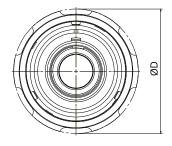
Plug connector supplied with straight backshell:

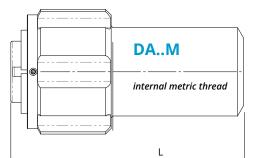
- DA..M: internal metric thread
- AC...R: MS 3057-C type cable clamp
- **AMK**: IRIS spring for multicore jacketed cables

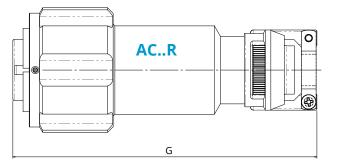
Shell type:

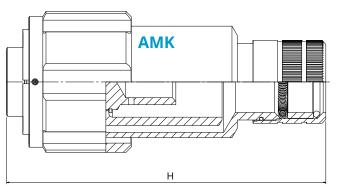
- 06 with straight backshell •
- 96 provided with grounding finger

Can be mated with 030 – 03..TH – 01 receptacles.









Shell Size	ØD	L	G*	H*	
32	67.1	**	165	167	
40	79.1	**	170	172	

Dimensions "G" and "H" can be different from the value indicated according to backshells accessories, wires size and some special configurations. * Verify with our sales office. Dimensions in mm

** Consult our sales office





PWBS Connectors - 01 Shell

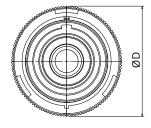
Plug Connector With Ramps

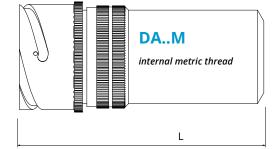


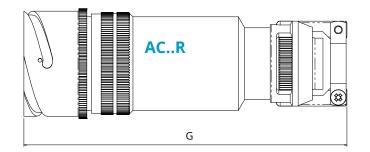
Cable connecting plug able to accept rear straight backshell:

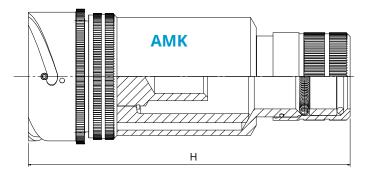
- DA..M: internal metric thread
- AC...R: MS 3057-C type cable clamp .
- AMK: IRIS spring for multicore jacketed cables

Can be mated with 06 – 96 – 06GG – 96GG – 65 – 965 plugs.









Shell Size	ØD	L	G*	H*	
32	53.4	**	165	165	
40	65.5	**	170	168	

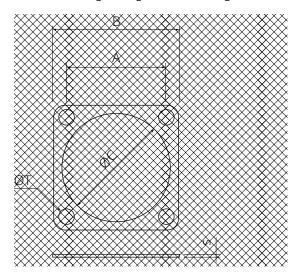
 * Dimensions "G" and "H" can be different from the value indicated according to backshells accessories, wires size and some special configurations. Verify with our sales office.
 ** Consult our sales office Dimensions in mm

PWBS Connectors - Accessories

Gasket

These gaskets are used to make panel connectors water resistant. Available in two version:

- gasket C216: non conductive chloroprene rubber gasket (IP67 protection) gasket C216G3: conductive silicone gaskets with embedded metal screen.
 - These gaskets guarantee watertightness and RFI shielding

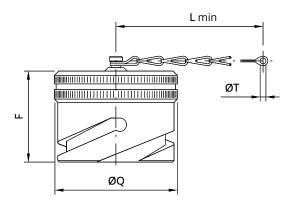


		Van-System P/N Non conductive	Number	Van- System P/N Conductive	A ±0.2	-	ØC ±0.3	-	S C216G3	ØT ±0.3
32	VS412409	C216-32	VS412439	C216G3-32	44.5	57	53.4	0.8±0.3	0.8±0.2	5.1
40	VS412411	C216-40	VS412441	C216G3-40	55.5	69.9	65.5	0.8±0.3	0.8±0.2	5.1

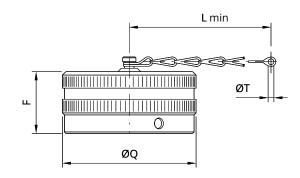
Dimensions in mm

Caps

F16: CCF - Black passivation (RoHS compliance) - conductive



Plug connector cap with stainless steel chain and lug.



Receptacle connector cap with stainless steel chain and lug.

Shell size	Part Number	Van-System P/N	ØQ	F	L min	ØТ	Shell size	Part Number	Van-System P/N	ØQ	F	L min	ØT
32	*	PWBS 042-32 F16	55.5	**	206	4.3	32	*	PWBS 043-32 F16	60	**	206	4.3
40	*	PWBS 042-40 F16	67.6	**	206	4.3	40	*	PWBS 043-40 F16	72.4	**	206	4.3
	* on request			** Coi	nsult ou	r sales of	fice				Dir	mension	s in mm



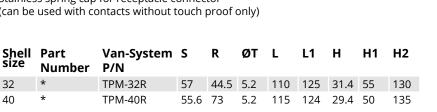


PWBS Connectors - Accessories

Caps



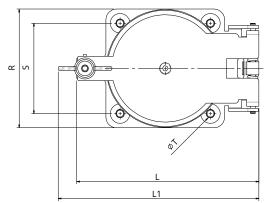
Stainless spring cap for receptacle connector (can be used with contacts without touch proof only)

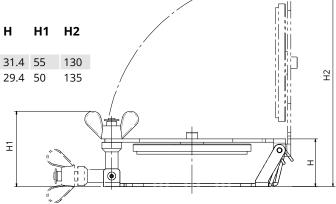


* on request

32

40



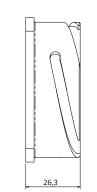


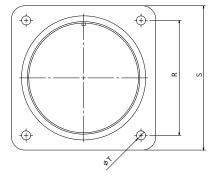
Dummy receptacle connector



Useful to hold the plug connectors when not in use (can be used with connectors without touch proof only).

Shell size	Part Number	Van-System P/N	S	R	ØT
32	*	PWBS 05-32 F16	57	44.5	4.4
40	*	PWBS 05-40 F16	69.8	55.6	4.4
	* on request				





PWBS Connectors - Tools

Crimping tools

For the instructions concerning the contacts crimping please consult the tools manuals.

We recommend to respect the following general rules:

- always use the tools recommended by Radiall VanSystem's in the catalogue or manuals
- apply the suggested norms for tool maintenance and calibration

DO NOT USE ALTERNATIVE GREASES OR OILS which could damage the insert and affect the functionality of the connector.

Manual crimping tool - Crimp Die



ΤοοΙ	Description	Part Number
CRT-HT45	Manual crimping tool	VS610003
CRT-HT120	Manual crimping tool	VS610001
CRT-HT131	Crimping Tool HT 131	VS610048
CDI-ME14	Crimp Die	VS610013
CDI-ME17-C	Crimp Die	VS610047
CDI-ME20-C	Crimp Die	VS610048
CDI-ME24-C	Crimp Die	VS610014
CDI-ME29-C	Crimp Die	VS610015
CDI-ME30-C	Crimp Die	VS610049
CDI-ME37-C	Crimp Die	VS610050
CDI-ME60-C	Crimp Die	VS610051
CDI-MK32-C	Crimp Die	VS610052

Removal tools



ΤοοΙ	Description	Part Number
CPES-784-15	Removal tool for contacts Ø15	VS610047
CPES-784-20	Removal tool for contacts Ø20	VS610044
CPES-784-22	Removal tool for contacts Ø22	VS610076
CPES-784-25	Removal tool for contacts Ø25	VS610045
CPES-784-30	Removal tool for contacts Ø30	VS610046













CP211213 single power connector





Connector with front finger test device - for cable MCM 646

- Straight plug bayonet connector, 1 Socket contact for cable MCM 646 327 mm², with multi-points contact band
- Shells: Aluminum alloy Protection plate: black epoxy varnish
- Connector accessories: backshell with MS3057-C cable clamp

Item

CP211213-61Sx

Connector with direct connection to busbar

- Bayonet connector rear panel mounting
- Contacts nr: 1 Pin with termination for direct connection to the busbar, M12 threaded
- Double multi-point contactation band
- Shells: Aluminum alloy Protection plate: black epoxy varnish

Item

CP211213-1-03Px

Connector for cable MCM 262

- Plug bayonet connector, 1 Socket contact for conductor MCM 262 133 mm² with multi-points contact band
- Shells: Aluminum alloy Protection plate: black epoxy varnish
- Connector accessories: backshell with cable retention trough toroidal spring and adapter M32 threaded
- The connector is supplied with thermoplastic caps

Item

CP211213-1-61Sx

Connector rear panel mounting and M32 backshell

- Bayonet connector rear panel mounting
- Contacts nr: 1 Pin with crimp termination for conductor MCM 262 133 mm² with multi-points contact band
- Shells: Aluminum alloy Protection plate: black epoxy varnish
- Connector accessories: backshell with cable retention trough toroidal spring and adapter M32 threaded

Item

CP211213-1-03Px

Mia-Hon









CP110616 single power connector





- Plug bayonet connector with rubber coated coupling nut and backshell
- Contacts nr:
 1 Pin contact for conductor 150 mm² with double multi-point contactation band
- 2 Pin contacts size 16 for conductor 2.5mm²
 Shells: Aluminum alloy Protection plate: black epoxy varnish

ltem

CP110616-1+2-06P-150

Connector unipolar central + 2 pilot contacts

- Bayonet connector rear panel mounting
- Contacts nr:
 - 1 Socket contact for direct connection to bus bar
 - 2 Socket contacts size 16 for conductor 2.5mm² (Jumpered)
- Shells: Aluminum alloy Protection plate: black epoxy varnish

ltem

CP110616-1+2-03S-120

Mi.L4 – Sal.

CP090313 – single power connector



Connector – backshell for rubber conduit

- Bayonet connector rear panel mounting
- Contacts nr: 1 Pin with multi-point contactation, size 2-30-185 and 2-30-240
- With polarization pin, can be supplied with 6 different polarizations
- Shells: Aluminum alloy Protection plate: F7 black epoxy-polyurethane varnish
- Connector accessories: backshell for Adapter for rubber conduit

ltem

CP090313-1-06P

Connector – rear panel mounting

- Bayonet connector rear panel mounting
- Contacts nr: 1 Socket with multi-point contactation, size 2-30-185 and 2-30-240
 - With polarization pin, can be supplied with 6 different polarizations
- Shells: Aluminum alloy Protection plate: black epoxy varnish
- Connector accessories: backshell with MS3057-C cable clamp

ltem	CP090313-1-03S	
	Mi.E.	x.



CP300912 single power connector





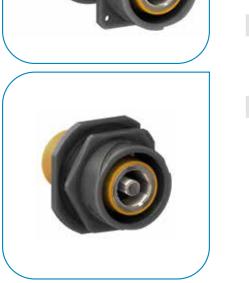
- Bayonet connector 90°
- Contacts nr: 1 Pin with multi-point contactation, wire section 240 mm²
- Shells: Aluminum alloy Protection plate: F7 black epoxy-polyurethane varnish
- Connector accessories: backshell for MS3057-C cable clamp

Item	CP300912 832B1S-A
ltem	CP300912 832B1S-B
ltem	CP300912 832B1S xx
item	CF300912 032D13 XX



Connector front panel mounting with screws or fixing nut

- Bayonet connector front panel mounting
- Contacts nr: 1 crimp Socket for double multi-point contactation band, wire section 240 mm2

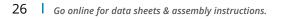














Safety

Information regarding the use of the product within recommended safety limits

To use the connectors described in this catalogue according to the necessary safety requirements we suggest you apply the following criteria:

• use the connectors and connected cables within their electrical and environmental limits

- follow the characteristics of each version (shell, class and type of strain relief) and carefully choose the appropriate connector for the required use
- make sure to respect the procedures regarding the correct assembly of connectors and the crimping of contacts
- · any connector damaged during shipment, storage, assembly or use should be replaced
- never uncouple the connectors when under power
- · always protect the parts against shock when the circuit is under power
- · always check the circuit before putting it under power
- consult Radiall Italia Srl if in doubt
- the user must take final responsibility for electrical safety Radiall Italia Srl reserves the right to amend the specifications of this catalogue without issuing prior notice.

For the instructions concerning assembly and crimping of contacts please consult the appropriate tools manuals.

We recommend to respect the following general rules:

- to be used always the tools recommended by Radiall Italia Srl's catalogue or manuals
- to be applied the suggested norms for tool maintenance and calibration

DO NOT USE ALTERNATIVE GREASES OR OILS which could damage the insert and affect the functionality of the connector. Radiall Italia Srl reserves the right to amend the specifications of this catalogue without issuing prior notice.

The data defined in this document are given as an indication. In the effort to improve our products, we reserve the right to make any change judged necessary.





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