

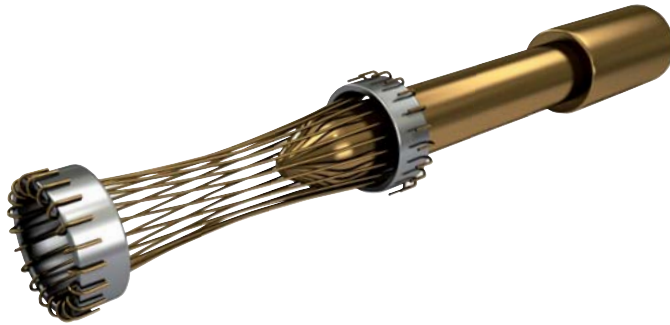
M12 CONNECTORS SERIES W

Robust and Reliable Circular Connectors



HYPERBOLOID TECHNOLOGY

Smiths Connectors offers an extensive range of superior contact technologies suitable for standard and custom solutions. Hypertac® (HYPERboloid conTACT) is the original superior performing hyperboloid contact technology designed for use in all applications and in harsh and demanding environments where high reliability and safety are critical. The inherent electrical and mechanical characteristics of the Hypertac hyperboloid contact ensures unrivalled performance in terms of reliability, number of mating cycles, low contact force and minimal contact resistance. The shape of the contact sleeve is formed by hyperbolically arranged contact wires, which align themselves elastically as contact lines around the pin, providing a number of linear contact paths.



FEATURE

LOW INSERTION/EXTRACTION FORCES

The angle of the socket wires allows tight control of the pin insertion and extraction forces. The spring wires are smoothly deflected to make line contact with the pin.

LONG CONTACT LIFE

The smooth and light wiping action minimizes wear on the contact surfaces. Contacts perform up to 100,000 insertion/extraction cycles with little degradation in performance.

LOWER CONTACT RESISTANCE

The design provides a far greater contact area and the wiping action of the wires insures a clean and polished contact surface. Our contact technology has half the resistance of conventional contact designs.

HIGHER CURRENT RATINGS

The design parameters of the contact (e.g., the number, diameter and angle of the wires) may be modified for any requirement. The number of wires can be increased so the contact area is distributed over a larger surface. Thus, the high current carried by each wire because of its intimate line contact, can be multiplied many times.

IMMUNITY TO SHOCK & VIBRATION

The low mass and resultant low inertia of the wires enable them to follow the most abrupt or extreme excursions of the pin without loss of contact. The contact area extends 360 degrees around the pin and is uniform over its entire length. The 3 dimensional symmetry of the Hypertac contact design guarantees electrical continuity in all circumstances.

BENEFIT

HIGH DENSITY INTERCONNECT SYSTEMS

Significant reductions in size and weight of sub-system designs. No additional hardware is required to overcome mating and un-mating forces.

LOW COST OF OWNERSHIP

The Hypertac contact technology will surpass most product requirements, thus eliminating the burden and cost of having to replace the connector or the entire subsystem.

LOW POWER CONSUMPTION

The lower contact resistance of our technology results in a lower voltage drop across the connector reducing the power consumption and heat generation within the system.

MAXIMUM CONTACT PERFORMANCE

The lower contact resistance of the Hypertac contact reduces heat build-up; therefore Hypertac contacts are able to handle far greater current in smaller contact assemblies without the detrimental effects of high temperature.

RELIABILITY UNDER HARSH ENVIRONMENTS

Harsh environmental conditions require connectors that will sustain their electrical integrity even under the most demanding conditions such as shock and vibration. The Hypertac contact provides unmatched stability in demanding environments when failure is not an option.

TABLE OF CONTENTS

M12 SERIES W

▶ Technical Characteristics.....	2
▶ How to Order.....	3
▶ Connector Types:	
Female Cable Plugs Over-moulded.....	4 - 5
Female Cable Plugs Free Assemble.....	6 - 8
Male Cable Plugs Over-moulded.....	9 - 10
Male Cable Plugs Free Assemble.....	11 - 12
Straight Male Receptacles.....	13 - 15
Angled Male Receptacle.....	16
Female Panel Feed Through.....	17 - 21
▶ Contacts.....	22
▶ Tools.....	23
▶ Assembly Instructions:	
Straight Female Cable Plug.....	24
Angled Female Cable Plug.....	25
Straight Male Cable Plug.....	26
Angled Male Cable Plug.....	27
Straight Male Receptacle.....	28
Angled Male Receptacle.....	29
Female Panel Feed Through.....	30
▶ Cable Clamps & Accessories.....	31

TECHNICAL CHARACTERISTICS

		STANDARDS
Contact diameter 2, 3, 4, 5poles	Ø 1mm	DIN EN 61076-2-101
Contact diameter 8poles	Ø 0.8mm	DIN EN 61076-2-101
Coding	A-code, D-code	-
MATERIAL		
Shell	Brass, zinc-diecast	-
Machined contacts	CuZn alloy	-
Stamped contacts	Tin-bronze, stainless steel	-
Insert	PA66, PA6	-
Sealing	FPM	-
Over-moulding	TPU	-
FINISHES		
Shell plating	Nickel	-
Machined contacts plating	Nickel and gold	-
Stamped contacts plating	Partly gold plated	-
MECHANICAL		
Mating cycles	>500	-
Contact retention force	>20N	EN 61984
ELECTRICAL		
Current rating	4 A (2...5 contacts) 2 A (6...8 contacts)	- -
Voltage rating	90 V (5poles A-code) 250 V 60 V 30 V	NF F 61-030 DIN 61076-2-101 (4 contacts) DIN 61076-2-101 (5 contacts) DIN 61076-2-101 (8 contacts)
Withstanding voltage	2500 V	EN 50124-1
Contact resistance	<7 mΩ	-
Insulation resistance	≤9 x 10³ MΩ	-
Overvoltage category	III	EN 61984
PHYSICAL AND ENVIRONMENTAL		
Operating temperature range	-40°C ... 125°C free assemble -40°C ... 85°C over-moulded	- -
Environmental level	IP67	-
Contamination level	3 PD3A	DIN 60664-1 EN 50124-1
Installation altitude	2000 m (2 – 5poles) 6000 m (8poles)	EN 61984 EN 61984
Fluid resistance	Oil, hydrolysis, microbes	-
Salt spray	96h	-
Fire & Smoke	Free assembled: V0 Over-moulded: HB	UL94 UL94

Consult factory for details



HOW TO ORDER



1 ▸ CONNECTOR FAMILY

W M12 Circular Connectors, Series W

2 ▸ CONNECTOR DESIGN

P	B	Straight female cable plug over-moulded
P	D	Angled female cable plug over-moulded
P	C	Straight female cable plug free assemble
P	E	Angled female cable plug free assemble
P	J	Straight female cable plug with flange, free assemble
R	B	Straight male cable plug over-moulded
R	D	Angled male cable plug over-moulded
R	C	Straight male cable plug free assemble
R	E	Angled male cable plug free assemble

E	A	Straight male receptacle, front panel mounting M16x1.5
E	B	Straight male receptacle, rear panel mounting M16x1.5
E	C	Angled male receptacle, rotatable back-shell
E	D	Straight male receptacle, front panel mounting M12x1
D	A	Panel feed through, female, hexagon wrench size 17, front panel mounting M16x1.5
D	B	Panel feed through, female, rear panel mounting M16x1.5
D	C	Panel feed through, female, front panel mounting M16x1.5
D	D	Panel feed through, female, rear panel mounting M16x1.5 with grounding pin
D	E	Panel feed through, female, front panel mounting M12x1

3 ▸ PLATING

A nickel plated

M mixed: metallic & plastics

4 ▸ INSERTS

0	4	A	4way D-coded for sockets, clockwise polarized, for straight female cable plugs
0	4	B	4way D-coded for pins, counter-clockwise polarized, for straight male cable plugs
0	4	C	4way D-coded for sockets, clockwise polarized, for panel feed through and 90° female cable plugs
0	4	D	4way D-coded for pins, counter-clockwise polarized, for receptacles and 90° male cable plugs
0	5	A	5way A-coded for sockets, clockwise polarized, for straight female cable plugs
0	5	B	5way A-coded for pins, counter-clockwise polarized, for straight male cable plugs

0	5	C	5way A-coded for sockets, clockwise polarized, for panel feed through and 90° female cable plugs
0	5	D	5way A-coded for pins, counter-clockwise polarized, for receptacles and 90° male cable plugs
0	8	A	8way A-coded for sockets, clockwise polarized, for straight female cable plugs
0	8	B	8way A-coded for pins, counter-clockwise polarized, for straight male cable plugs
0	8	C	8way A-coded for sockets, clockwise polarized, for panel feed through and 90° female cable plugs
0	8	D	8way A-coded for pins, counter-clockwise polarized, for receptacles and 90° male cable plugs

5 ▸ TERMINATION STYLE

N	N	N	N	without contacts for all free assemble versions, hyperboloid machined or stamped contacts to be ordered separately
F	R	A	N	including machined sockets Ø 1mm, mandrel crimp barrel
F	D	A	N	including machined hyperboloid sockets Ø 1mm with solder pin
F	D	B	N	including machined hyperboloid sockets Ø 1mm with solder pin
M	R	A	N	including machined pins Ø 1mm, mandrel crimp barrel
M	D	A	N	including machined pins Ø 1mm with solder pin
M	D	B	N	including machined pins Ø 1mm with solder pin

6 ▸ CABLE CLAMPING

0	0	0	without cable clamp for receptacles and panel feed through
2	8	3	Clamp for all free assembled cable plugs, clamping range Ø 8 - 10 mm
2	9	4	Clamp for all free assembled cable plugs, clamping range Ø 6 - 8 mm
2	9	3	Clamp for all free assembled cable plugs, clamping range Ø 4.5 - 6 mm

7 ▸ VERSION NUMBER

0	2	5way insulator partially equipped for 2pole version
0	3	5way insulator partially equipped for 3pole version
0	4	5way insulator partially equipped for 4pole version

► FEMALE CABLE PLUGS - OVER-MOULDED

STRAIGHT FEMALE CABLE PLUG - TYPE PB

Straight female cable plug with coupling ring, over-moulded, shielded

Cable Length

- › 00100 1 m
- › 00200 2 m
- › 00300 3 m
- › 00500 5 m
- › 01000 10 m



Dimensions are in mm

INCL. Ø 1mm MACHINED HYPERBOLOID SOCKETS			
	4way D-coded	Part number K/WPBM04A007/..... cable length to be added standard cable: PUR 4 x 0.35, cable Ø 5.0mm ± 0.2	
	5way A-coded	Part number K/WPBM05A001/..... cable length to be added special cable: NEXANS 2PH 190	

Ø 1.0mm stamped hyperboloid sockets are also available, please contact factory for new part number

INCL. Ø 1mm STAMPED HYPERBOLOID SOCKETS			
	4way A-coded	Part number K/WPBM05A009/..... cable length to be added standard cable: PUR 4 x 0.35, cable Ø 5.0mm ± 0.2	
	5way A-coded	Part number K/WPBM05A006/..... cable length to be added standard cable: PUR 5 x 0.35, cable Ø 5.4mm ± 0.2	

Ø 1.0mm machined hyperboloid sockets are also available, please contact factory for new part number

INCL. Ø 0.8mm STAMPED HYPERBOLOID SOCKETS			
	8way A-coded	Part number K/WPBM08A008/..... cable length to be added standard cable: PUR 4x2 x 0.25, cable Ø 6.8mm ± 0.2	

For all types: To define your individual cable quality and cable length please contact factory

► FEMALE CABLE PLUGS - OVER-MOULDED

ANGLED FEMALE CABLE PLUG - TYPE PD

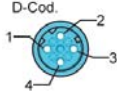

90° female cable plug with coupling ring, over-moulded, shielded

Cable Length

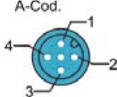

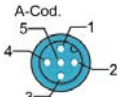

- 00100 1 m
- 00200 2 m
- 00300 3 m
- 00500 5 m
- 01000 10 m



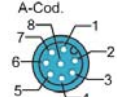

Dimensions are in mm

INCL. Ø 1mm MACHINED HYPERBOLOID SOCKETS			
	4way D-coded	Part number K/WPDM04C007/..... cable length to be added standard cable: PUR 4 x 0.35, cable Ø 5.0mm ± 0.2	

Ø 1.0mm stamped hyperboloid sockets are also available, please contact factory for new part number

INCL. Ø 1mm STAMPED HYPERBOLOID SOCKETS			
	4way A-coded	Part number K/WPDM05C005/..... cable length to be added standard cable: PUR 4 x 0.35, cable Ø 5.0mm ± 0.2	
	5way A-coded	Part number K/WPDM05C006/..... cable length to be added standard cable: PUR 5 x 0.35, cable Ø 5.4mm ± 0.2	

Ø 1.0mm machined hyperboloid sockets are also available, please contact factory for new part number

INCL. Ø 0.8mm STAMPED HYPERBOLOID SOCKETS			
	8way A-coded	Part number K/WPDM08C008/..... cable length to be added standard cable: PUR 4x2 x 0.25, cable Ø 6.8mm ± 0.2	

For all types: To define your individual cable quality and cable length please contact factory

► FEMALE CABLE PLUGS - FREE ASSEMBLE

STRAIGHT FEMALE CABLE PLUG - TYPE PC

Straight female cable plug with coupling ring, free assemble, shieldable, variable cable clamps

Stamped hyperboloid HCS sockets on reels 300/9.000 pcs.
More information and part numbers see page 22



Dimensions are in mm

WITHOUT CONTACTS FOR ORDERING Ø 1mm MACHINED OR STAMPED HYPERBOLOID SOCKETS SEPARATELY			
	4way D-coded	Part number W PC A 04A NNNN 283 (clamp range Ø 8 - 10mm) W PC A 04A NNNN 294 (clamp range Ø 6 - 8mm) W PC A 04A NNNN 293 (clamp range Ø 4.5 - 6mm)	
	5way A-coded	Part number W PC A 05A NNNN 283 (clamp range Ø 8 - 10mm) W PC A 05A NNNN 294 (clamp range Ø 6 - 8mm) W PC A 05A NNNN 293 (clamp range Ø 4.5 - 6mm)	

INCL. Ø 1mm MACHINED HYPERBOLOID SOCKETS AWG 24-20			
	4way D-coded	Part number W PC A 04A FRAN 283 .. (clamp range Ø 8 - 10mm) W PC A 04A FRAN 294 .. (clamp range Ø 6 - 8mm) W PC A 04A FRAN 293 .. (clamp range Ø 4.5 - 6mm) For partial assembly with 2 - 3 contacts add version number, see page 3	
	5way A-coded	Part number W PC A 05A FRAN 283 .. (clamp range Ø 8 - 10mm) W PC A 05A FRAN 294 .. (clamp range Ø 6 - 8mm) W PC A 05A FRAN 293 .. (clamp range Ø 4.5 - 6mm) For partial assembly with 2 - 4 contacts add version number, see page 3	

We also offer cable assembly, please contact factory

WITHOUT CONTACTS FOR ORDERING Ø 0.8mm STAMPED HYPERBOLOID SOCKETS SEPARATELY			
	8way A-coded	Part number W PC A 08A NNNN 283 (clamp range Ø 8 - 10mm) W PC A 08A NNNN 294 (clamp range Ø 6 - 8mm) W PC A 08A NNNN 293 (clamp range Ø 4.5 - 6mm)	

► FEMALE CABLE PLUGS - FREE ASSEMBLE

STRAIGHT FEMALE CABLE PLUG - TYPE PJ

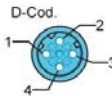

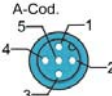

Straight female cable plug with external thread, flange mounting, free assemble, shieldable, variable cable clamps

Stamped hyperboloid HCS sockets on reels 300/9.000 pcs.
More information and part numbers see page 22

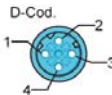

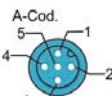



Dimensions are in mm

WITHOUT CONTACTS FOR ORDERING Ø 1mm MACHINED OR STAMPED HYPERBOLOID SOCKETS SEPARATELY

	4way D-coded	Part number W PJ A 04A NNNN 283 (clamp range Ø 8 - 10mm) W PJ A 04A NNNN 294 (clamp range Ø 6 - 8mm) W PJ A 04A NNNN 293 (clamp range Ø 4.5 - 6mm)	
	5way A-coded	Part number W PJ A 05A NNNN 283 (clamp range Ø 8 - 10mm) W PJ A 05A NNNN 294 (clamp range Ø 6 - 8mm) W PJ A 05A NNNN 293 (clamp range Ø 4.5 - 6mm)	

INCL. Ø 1mm MACHINED HYPERBOLOID SOCKETS AWG 24-20

	4way D-coded	Part number W PJ A 04A FRAN 283 .. (clamp range Ø 8 - 10mm) W PJ A 04A FRAN 294 .. (clamp range Ø 6 - 8mm) W PJ A 04A FRAN 293 .. (clamp range Ø 4.5 - 6mm) For partial assembly with 2 - 3 contacts add version number, see page 3	
	5way A-coded	Part number W PJ A 05A FRAN 283 .. (clamp range Ø 8 - 10mm) W PJ A 05A FRAN 294 .. (clamp range Ø 6 - 8mm) W PJ A 05A FRAN 293 .. (clamp range Ø 4.5 - 6mm) For partial assembly with 2 - 4 contacts add version number, see page 3	

We also offer cable assembly, please contact factory

WITHOUT CONTACTS FOR ORDERING Ø 0.8mm STAMPED HYPERBOLOID SOCKETS SEPARATELY

	8way A-coded	Part number W PJ A 08A NNNN 283 (clamp range Ø 8 - 10mm) W PJ A 08A NNNN 294 (clamp range Ø 6 - 8mm) W PJ A 08A NNNN 293 (clamp range Ø 4.5 - 6mm)	
---	--------------	--	--

► FEMALE CABLE PLUGS - FREE ASSEMBLE

ANGLED FEMALE CABLE PLUG - TYPE PE

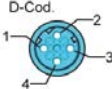

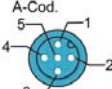

90° female cable plug with coupling ring, free assemble, shieldable, variable cable clamps

Stamped hyperboloid HCS sockets on reels 300/9.000 pcs.
More information and part numbers see page 22

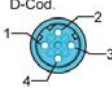

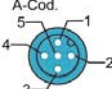



Dimensions are in mm

WITHOUT CONTACTS FOR ORDERING Ø 1mm MACHINED OR STAMPED HYPERBOLOID SOCKETS SEPARATELY

	4way D-coded	Part number W PE A 04C NNNN 283 (clamp range Ø 8 - 10mm) W PE A 04C NNNN 294 (clamp range Ø 6 - 8mm) W PE A 04C NNNN 293 (clamp range Ø 4.5 - 6mm)	
	5way A-coded	Part number W PE A 05C NNNN 283 (clamp range Ø 8 - 10mm) W PE A 05C NNNN 294 (clamp range Ø 6 - 8mm) W PE A 05C NNNN 293 (clamp range Ø 4.5 - 6mm)	

INCL. Ø 1mm MACHINED HYPERBOLOID SOCKETS AWG 24-20

	4way D-coded	Part number W PE A 04C FRAN 283 .. (clamp range Ø 8 - 10mm) W PE A 04C FRAN 294 .. (clamp range Ø 6 - 8mm) W PE A 04C FRAN 293 .. (clamp range Ø 4.5 - 6mm) For partial assembly with 2 - 3 contacts add version number, see page 3	
	5way A-coded	Part number W PE A 05C FRAN 283 .. (clamp range Ø 8 - 10mm) W PE A 05C FRAN 294 .. (clamp range Ø 6 - 8mm) W PE A 05C FRAN 293 .. (clamp range Ø 4.5 - 6mm) For partial assembly with 2 - 4 contacts add version number, see page 3	

We also offer cable assembly, please contact factory

WITHOUT CONTACTS FOR ORDERING Ø 0.8mm STAMPED HYPERBOLOID SOCKETS SEPARATELY

	8way A-coded	Part number W PE A 08C NNNN 283 (clamp range Ø 8 - 10mm) W PE A 08C NNNN 294 (clamp range Ø 6 - 8mm) W PE A 08C NNNN 293 (clamp range Ø 4.5 - 6mm)	
--	--------------	--	---

MALE CABLE PLUGS - OVER-MOULDED

STRAIGHT MALE CABLE PLUG - TYPE RB

Straight male cable plug with external thread, over-moulded, shielded

Cable Length

- › 00100 1 m
- › 00200 2 m
- › 00300 3 m
- › 00500 5 m
- › 01000 10 m



Dimensions are in mm

INCL. Ø 1mm MACHINED PINS			
	4way D-coded	Part number K/WRBM04B007/..... cable length to be added standard cable: PUR 4 x 0.35, cable Ø 5.0mm ± 0.2	
	4way D-coded	Part number K/WRBM04B001/..... cable length to be added special cable: NEXANS 2PK 211	
	5way A-coded	Part number K/WRBM05B001/..... cable length to be added special cable: NEXANS 2PK 211	

Ø 1.0mm stamped pins are also available, please contact factory for new part number

INCL. Ø 1mm STAMPED PINS			
	4way A-coded	Part number K/WRBM05B005/..... cable length to be added standard cable: PUR 4 x 0.35, cable Ø 5.0mm ± 0.2	
	5way A-coded	Part number K/WRBM05B006/..... cable length to be added standard cable: PUR 5 x 0.35, cable Ø 5.4mm ± 0.2	

Ø 1.0mm machined pins are also available, please contact factory for new part number

INCL. Ø 0.8mm STAMPED PINS			
	8way A-coded	Part number K/WRBM08B008/..... cable length to be added standard cable: PUR 4x2 x 0.25, cable Ø 6.8mm ± 0.2	

For all types: To define your individual cable quality and cable length please contact factory

MALE CABLE PLUGS - OVER-MOULDED

ANGLED MALE CABLE PLUG - TYPE RD

90° male cable plug with external thread, over-moulded, shielded

Cable Length

- 00100 1 m
- 00200 2 m
- 00300 3 m
- 00500 5 m
- 01000 10 m



Dimensions are in mm

INCL. Ø 1mm MACHINED PINS			
	4way D-coded	Part number K/WRDM04D008/..... cable length to be added standard cable: PUR 4 x 0.35, cable Ø 5.0mm ± 0.2	

Ø 1.0mm stamped pins are also available, please contact factory for new part number

INCL. Ø 1mm STAMPED PINS			
	4way A-coded	Part number K/WRDM05D006/..... cable length to be added standard cable: PUR 4 x 0.35, cable Ø 5.0mm ± 0.2	
	5way A-coded	Part number K/WRDM05D007/..... cable length to be added standard cable: PUR 5 x 0.35, cable Ø 5.4mm ± 0.2	

Ø 1.0mm machined pins are also available, please contact factory for new part number

INCL. Ø 0.8mm STAMPED PINS			
	8way A-coded	Part number K/WRDM08D009/..... cable length to be added standard cable: PUR 4x2 x 0.25, cable Ø 6.8mm ± 0.2	

For all types: To define your individual cable quality and cable length please contact factory

► MALE CABLE PLUGS - FREE ASSEMBLE

STRAIGHT MALE CABLE PLUG - TYPE RC

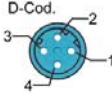

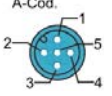

Straight male cable plug with external thread, free assemble, shieldable, variable cable clamps

Stamped HCS round pins on reels 300/9.000 pcs.
More information and part numbers see page 22

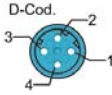

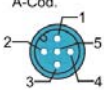



Dimensions are in mm

WITHOUT CONTACTS FOR ORDERING Ø 1mm MACHINED OR STAMPED PINS SEPARATELY

	4way D-coded	Part number W RC A 04B NNNN 283 (clamp range Ø 8 - 10mm) W RC A 04B NNNN 294 (clamp range Ø 6 - 8mm) W RC A 04B NNNN 293 (clamp range Ø 4.5 - 6mm)	
	5way A-coded	Part number W RC A 05B NNNN 283 (clamp range Ø 8 - 10mm) W RC A 05B NNNN 294 (clamp range Ø 6 - 8mm) W RC A 05B NNNN 293 (clamp range Ø 4.5 - 6mm)	

INCL. Ø 1mm MACHINED PINS AWG 24-20

	4way D-coded	Part number W RC A 04B MRAN 283 .. (clamp range Ø 8 - 10mm) W RC A 04B MRAN 294 .. (clamp range Ø 6 - 8mm) W RC A 04B MRAN 293 .. (clamp range Ø 4.5 - 6mm) For partial assembly with 2 - 3 contacts add version number, see page 3	
	5way A-coded	Part number W RC A 05B MRAN 283 .. (clamp range Ø 8 - 10mm) W RC A 05B MRAN 294 .. (clamp range Ø 6 - 8mm) W RC A 05B MRAN 293 .. (clamp range Ø 4.5 - 6mm) For partial assembly with 2 - 4 contacts add version number, see page 3	

We also offer cable assembly, please contact factory

WITHOUT CONTACTS FOR ORDERING Ø 0.8mm STAMPED PINS SEPARATELY

	8way A-coded	Part number W RC A 08B NNNN 283 (clamp range Ø 8 - 10mm) W RC A 08B NNNN 294 (clamp range Ø 6 - 8mm) W RC A 08B NNNN 293 (clamp range Ø 4.5 - 6mm)	
---	--------------	--	--

MALE CABLE PLUGS - FREE ASSEMBLE

ANGLED MALE CABLE PLUG - TYPE RE

90° male cable plug with external thread, free assemble, shieldable, variable cable clamps

Stamped HCS round pins on reels 300/9.000 pcs.
More information and part numbers see page 22



Dimensions are in mm

WITHOUT CONTACTS FOR ORDERING Ø 1mm MACHINED OR STAMPED PINS SEPARATELY

	4way D-coded	Part number W RE A 04D NNNN 283 (clamp range Ø 8 - 10mm) W RE A 04D NNNN 294 (clamp range Ø 6 - 8mm) W RE A 04D NNNN 293 (clamp range Ø 4.5 - 6mm)	
	5way A-coded	Part number W RE A 05D NNNN 283 (clamp range Ø 8 - 10mm) W RE A 05D NNNN 294 (clamp range Ø 6 - 8mm) W RE A 05D NNNN 293 (clamp range Ø 4.5 - 6mm)	

INCL. Ø 1mm MACHINED PINS AWG 24-20

	4way D-coded	Part number W RE A 04D MRAN 283 .. (clamp range Ø 8 - 10mm) W RE A 04D MRAN 294 .. (clamp range Ø 6 - 8mm) W RE A 04D MRAN 293 .. (clamp range Ø 4.5 - 6mm) For partial assembly with 2 - 3 contacts add version number, see page 3	
	5way A-coded	Part number W RE A 05D MRAN 283 .. (clamp range Ø 8 - 10mm) W RE A 05D MRAN 294 .. (clamp range Ø 6 - 8mm) W RE A 05D MRAN 293 .. (clamp range Ø 4.5 - 6mm) For partial assembly with 2 - 4 contacts add version number, see page 3	

We also offer cable assembly, please contact factory

WITHOUT CONTACTS FOR ORDERING Ø 0.8mm STAMPED PINS SEPARATELY

	8way A-coded	Part number W RE A 08D NNNN 283 (clamp range Ø 8 - 10mm) W RE A 08D NNNN 294 (clamp range Ø 6 - 8mm) W RE A 08D NNNN 293 (clamp range Ø 4.5 - 6mm)	
--	--------------	--	--

MALE RECEPTACLES

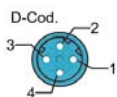

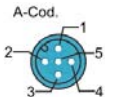

STRAIGHT MALE RECEPTACLE - TYPE EA

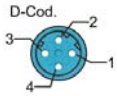

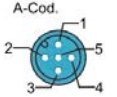

Straight male receptacle, front panel mounting M16x1.5

Stamped HCS round pins on reels 300/9.000 pcs.
More information and part numbers see page 22

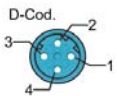

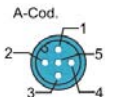



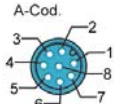

Dimensions are in mm

WITHOUT CONTACTS FOR ORDERING Ø 1mm MACHINED OR STAMPED PINS SEPARATELY			
	4way D-coded	Part number W EAA 04D NNNN 000	
	5way A-coded	Part number W EAA 05D NNNN 000	

INCL. Ø 1mm MACHINED PINS AWG 24-20			
	4way D-coded	Part number W EAA 04D MRAN 000 .. For partial assembly with 2 - 3 contacts add version number, see page 3	
	5way A-coded	Part number W EAA 05D MRAN 000 .. For partial assembly with 2 - 4 contacts add version number, see page 3	

Contact factory for wired version

INCL. Ø 1mm MACHINED PINS, SOLDER DIP, FOR PCB ASSEMBLY, SOLDER PIN Ø 1mm			
	4way D-coded	Part number W EAA 04D MDAN 000 .. (length X = 8mm) W EAA 04D MDBN 000 .. (length X = 6mm) For partial assembly with 2 - 3 contacts add version number, see page 3	
	5way A-coded	Part number W EAA 05D MDAN 000 .. (length X = 8mm) W EAA 05D MDBN 000 .. (length X = 6mm) For partial assembly with 2 - 4 contacts add version number, see page 3	

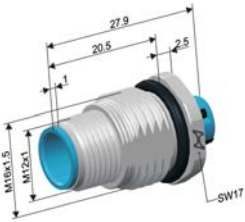
WITHOUT CONTACTS FOR ORDERING Ø 0.8mm STAMPED PINS SEPARATELY			
	8way A-coded	Part number W EAA 08D NNNN 000	

MALE RECEPTACLES

STRAIGHT MALE RECEPTACLE - TYPE EB

Straight male receptacle, rear panel mounting M16x1.5

Stamped HCS round pins on reels 300/9.000 pcs.
More information and part numbers see page 22



Dimensions are in mm

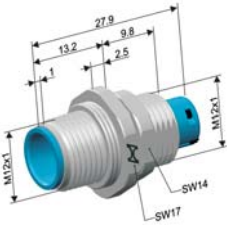
WITHOUT CONTACTS FOR ORDERING Ø 1mm MACHINED OR STAMPED PINS SEPARATELY			
	4way D-coded	Part number W EB A 04D NNNN 000	
	5way A-coded	Part number W EB A 05D NNNN 000	
INCL. Ø 1mm MACHINED PINS AWG 24-20			
	4way D-coded	Part number W EB A 04D MRAN 000 .. For partial assembly with 2 - 3 contacts add version number, see page 3	
	5way A-coded	Part number W EB A 05D MRAN 000 .. For partial assembly with 2 - 4 contacts add version number, see page 3	
Contact factory for wired version			
INCL. Ø 1mm MACHINED PINS, SOLDER DIP, FOR PCB ASSEMBLY, SOLDER PIN Ø 1mm			
	4way D-coded	Part number W EB A 04D MDAN 000 .. (length X = 8mm) W EB A 04D MDBN 000 .. (length X = 6mm) For partial assembly with 2 - 3 contacts add version number, see page 3	
	5way A-coded	Part number W EB A 05D MDAN 000 .. (length X = 8mm) W EB A 05D MDBN 000 .. (length X = 6mm) For partial assembly with 2 - 4 contacts add version number, see page 3	
WITHOUT CONTACTS FOR ORDERING Ø 0.8mm STAMPED PINS SEPARATELY			
	8way A-coded	Part number W EB A 08D NNNN 000	

MALE RECEPTACLES

STRAIGHT MALE RECEPTACLE - TYPE ED

Straight male receptacle, front panel mounting M12x1

Stamped HCS round pins on reels 300/9.000 pcs.
More information and part numbers see page 22



Dimensions are in mm

WITHOUT CONTACTS FOR ORDERING Ø 1mm MACHINED OR STAMPED PINS SEPARATELY

<p>D-Cod.</p>	4way D-coded	Part number W ED A 04D NNNN 000	without contacts
<p>A-Cod.</p>	5way A-coded	Part number W ED A 05D NNNN 000	without contacts

INCL. Ø 1mm MACHINED PINS AWG 24-20

<p>D-Cod.</p>	4way D-coded	Part number W ED A 04D MRAN 000 .. For partial assembly with 2 - 3 contacts add version number, see page 3	
<p>A-Cod.</p>	5way A-coded	Part number W ED A 05D MRAN 000 .. For partial assembly with 2 - 4 contacts add version number, see page 3	

Contact factory for wired version

INCL. Ø 1mm MACHINED PINS, SOLDER DIP, FOR PCB ASSEMBLY, SOLDER PIN Ø 1mm

<p>D-Cod.</p>	4way D-coded	Part number W ED A 04D MDAN 000 .. (length X = 8mm) W ED A 04D MDBN 000 .. (length X = 6mm) For partial assembly with 2 - 3 contacts add version number, see page 3	
<p>A-Cod.</p>	5way A-coded	Part number W ED A 05D MDAN 000 .. (length X = 8mm) W ED A 05D MDBN 000 .. (length X = 6mm) For partial assembly with 2 - 4 contacts add version number, see page 3	

WITHOUT CONTACTS FOR ORDERING Ø 0.8mm STAMPED PINS SEPARATELY

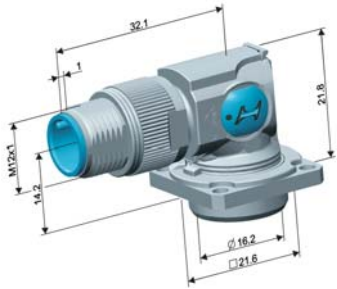
<p>A-Cod.</p>	8way A-coded	Part number W ED A 08D NNNN 000	without contacts
---------------	--------------	---	------------------

MALE RECEPTACLES

ANGLED MALE RECEPTACLE - TYPE EC

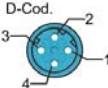

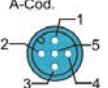

90° male receptacle, flange mounting, rotatable back-shell 0° - 330°

Stamped HCS round pins on reels 300/9.000 pcs.
More information and part numbers see page 22

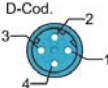

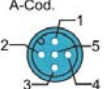



Dimensions are in mm

WITHOUT CONTACTS FOR ORDERING Ø 1mm MACHINED OR STAMPED PINS SEPARATELY

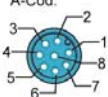

	4way D-coded	Part number W EC A 04D NNNN 000	
	5way A-coded	Part number W EC A 05D NNNN 000	

INCL. Ø 1mm MACHINED PINS AWG 24-20

	4way D-coded	Part number W EC A 04D MRAN 000 .. For partial assembly with 2 - 3 contacts add version number, see page 3	
	5way A-coded	Part number W EC A 05D MRAN 000 .. For partial assembly with 2 - 4 contacts add version number, see page 3	

Contact factory for wired version

WITHOUT CONTACTS FOR ORDERING Ø 0.8mm STAMPED PINS SEPARATELY

	8way A-coded	Part number W EC A 08D NNNN 000	
--	--------------	---	---

► FEMALE PANEL FEED THROUGH

STRAIGHT PANEL FEED THROUGH - TYPE DA

Panel feed through, female, hexagon wrench size 17, front panel mounting M16x1.5

Stamped HCS hyperboloid sockets on reels 300/9.000 pcs.
More information and part numbers see page 22



Dimensions are in mm

WITHOUT CONTACTS FOR ORDERING Ø 1mm MACHINED OR STAMPED SOCKETS SEPARATELY			
	4way D-coded	Part number W DAA 04C NNNN 000	
	5way A-coded	Part number W DAA 05C NNNN 000	

INCL. Ø 1mm MACHINED SOCKETS AWG 24-20			
	4way D-coded	Part number W DAA 04C FRAN 000 .. For partial assembly with 2 - 3 contacts add version number, see page 3	
	5way A-coded	Part number W DAA 05C FRAN 000 .. For partial assembly with 2 - 4 contacts add version number, see page 3	

Contact factory for wired version

INCL. Ø 1mm MACHINED SOCKETS, SOLDER DIP, FOR PCB ASSEMBLY, SOLDER PIN Ø 1mm			
	4way D-coded	Part number W DAA 04C FDBN 000 .. (length X = 8mm) W DAA 04C FDBN 000 .. (length X = 6mm) For partial assembly with 2 - 3 contacts add version number, see page 3	
	5way A-coded	Part number W DAA 05C FDBN 000 .. (length X = 8mm) W DAA 05C FDBN 000 .. (length X = 6mm) For partial assembly with 2 - 4 contacts add version number, see page 3	

WITHOUT CONTACTS FOR ORDERING Ø 0.8mm STAMPED SOCKETS SEPARATELY			
	8way A-coded	Part number W DAA 08C NNNN 000	

FEMALE PANEL FEED THROUGH

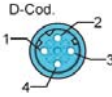

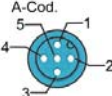

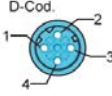

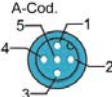

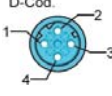

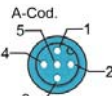

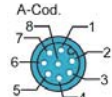

STRAIGHT PANEL FEED THROUGH – TYPE DB

Panel feed through, female, rear panel mounting M16x1.5

Stamped HCS hyperboloid sockets reels 300/9.000 pcs.
More information and part numbers see page 22



Dimensions are in mm

WITHOUT CONTACTS FOR ORDERING Ø 1mm MACHINED OR STAMPED SOCKETS SEPARATELY			
	4way D-coded	Part number W DB A 04C NNNN 000	
	5way A-coded	Part number W DB A 05C NNNN 000	
INCL. Ø 1mm MACHINED SOCKETS AWG 24-20			
	4way D-coded	Part number W DB A 04C FRAN 000 ... For partial assembly with 2 - 3 contacts add version number, see page 3	
	5way A-coded	Part number W DB A 05C FRAN 000 ... For partial assembly with 2 - 4 contacts add version number, see page 3	
Contact factory for wired version			
INCL. Ø 1mm MACHINED SOCKETS, SOLDER DIP, FOR PCB ASSEMBLY, SOLDER PIN Ø 1mm			
	4way D-coded	Part number W DB A 04C FDAN 000 ... (length X = 8mm) W DB A 04C FDBN 000 ... (length X = 6mm) For partial assembly with 2 - 3 contacts add version number, see page 3	
	5way A-coded	Part number W DB A 05C FDAN 000 ... (length X = 8mm) W DB A 05C FDBN 000 ... (length X = 6mm) For partial assembly with 2 - 4 contacts add version number, see page 3	
WITHOUT CONTACTS FOR ORDERING Ø 0.8mm STAMPED SOCKETS SEPARATELY			
	8way A-coded	Part number W DB A 08C NNNN 000	

► FEMALE PANEL FEED THROUGH

STRAIGHT PANEL FEED THROUGH – TYPE DC

Panel feed through, female, front panel mounting M16x1.5

Stamped HCS hyperboloid sockets on reels 300/9.000 pcs.
More information and part numbers see page 22



Dimensions are in mm

WITHOUT CONTACTS FOR ORDERING Ø 1mm MACHINED OR STAMPED SOCKETS SEPARATELY			
	4way D-coded	Part number W DC A 04C NNNN 000	without contacts
	5way A-coded	Part number W DC A 05C NNNN 000	without contacts

INCL. Ø 1mm MACHINED SOCKETS AWG 24-20			
	4way D-coded	Part number W DC A 04C FRAN 000 .. For partial assembly with 2 - 3 contacts add version number, see page 3	
	5way A-coded	Part number W DC A 05C FRAN 000 .. For partial assembly with 2 - 4 contacts add version number, see page 3	

Contact factory for wired version

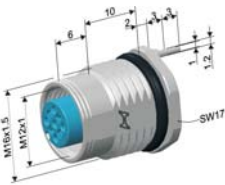
INCL. Ø 1mm MACHINED SOCKETS, SOLDER DIP, FOR PCB ASSEMBLY, SOLDER PIN Ø 1mm			
	4way D-coded	Part number W DC A 04C FDAN 000 .. (length X = 8mm) W DC A 04C FDBN 000 .. (length X = 6mm) For partial assembly with 2 - 3 contacts add version number, see page 3	
	5way A-coded	Part number W DC A 05C FDAN 000 .. (length X = 8mm) W DC A 05C FDBN 000 .. (length X = 6mm) For partial assembly with 2 - 4 contacts add version number, see page 3	

WITHOUT CONTACTS FOR ORDERING Ø 0.8mm STAMPED SOCKETS SEPARATELY			
	8way A-coded	Part number W DC A 08C NNNN 000	without contacts

► FEMALE PANEL FEED THROUGH

STRAIGHT PANEL FEED THROUGH – TYPE DD

Panel feed through, female, rear panel mounting M16x1.5, with grounding pin



Dimensions are in mm

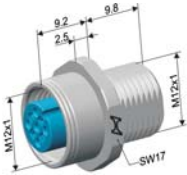
INCL. Ø 1mm MACHINED SOCKETS, SOLDER DIP, FOR PCB ASSEMBLY, SOLDER PIN Ø 1mm			
	4way D-coded	Part number W DD A 04C FDAN 000 .. (length X = 8mm) W DD A 04C FDBN 000 .. (length X = 6mm) For partial assembly with 2 - 3 contacts add version number, see page 3	
	5way A-coded	Part number W DD A 05C FDAN 000 .. (length X = 8mm) W DD A 05C FDBN 000 .. (length X = 6mm) For partial assembly with 2 - 4 contacts add version number, see page 3	

► FEMALE PANEL FEED THROUGH

STRAIGHT PANEL FEED THROUGH – TYPE DE

Panel feed through, female, front panel mounting M12x1

Stamped HCS hyperboloid sockets on reels 300/9.000 pcs.
More information and part numbers see page 22



Dimensions are in mm

WITHOUT CONTACTS FOR ORDERING Ø 1mm MACHINED OR STAMPED SOCKETS SEPARATELY			
	4way D-coded	Part number W DE A 04C NNNN 000	
	5way A-coded	Part number W DE A 05C NNNN 000	
INCL. Ø 1mm MACHINED SOCKETS AWG 24-20			
	4way D-coded	Part number W DE A 04C FRAN 000 ... For partial assembly with 2 - 3 contacts add version number, see page 3	
	5way A-coded	Part number W DE A 05C FRAN 000 ... For partial assembly with 2 - 4 contacts add version number, see page 3	
Contact factory for wired version			
INCL. Ø 1mm MACHINED SOCKETS, SOLDER DIP, FOR PCB ASSEMBLY, SOLDER PIN Ø 1mm			
	4way D-coded	Part number W DE A 04C FDAN 000 ... (length X = 8mm) W DE A 04C FDBN 000 ... (length X = 6mm) For partial assembly with 2 - 3 contacts add version number, see page 3	
	5way A-coded	Part number W DE A 05C FDAN 000 ... (length X = 8mm) W DE A 05C FDBN 000 ... (length X = 6mm) For partial assembly with 2 - 4 contacts add version number, see page 3	
WITHOUT CONTACTS FOR ORDERING Ø 0.8mm STAMPED SOCKETS SEPARATELY			
	8way A-coded	Part number W DE A 08C NNNN 000	

CONTACTS

CRIMP

1mm MACHINED CONTACTS AWG 24 - 18		
Hyperboloid socket (0.24 - 1.0mm ²) Pin (0.24 - 1.0mm ²)	Part number 020.001022.1020 021.001039.1020	Part number crimp tools B151 + B200 B151 + B200
1mm MACHINED CONTACTS AWG 30 - 22		
Hyperboloid socket (0.05 - 0.34mm ²) Pin (0.05 - 0.34mm ²)	Part number 020.353.1020 021.402.1020	Part number crimp tools B150 + B055/A B150 + B055/A

1mm STAMPED CONTACTS HCS AWG 32 - 28			
Hyperboloid socket (0.03 - 0.08mm ²) Round pin (0.03 - 0.08mm ²)	Part number Reel 9,000 pcs. 020.000376.2000 021.001005.1025	Part number Reel 300 pcs. 020.000376.2000.A2 021.001005.1025.A2	Part number Crimping Tool B287/32 - 28 B287/32 - 28
1mm STAMPED CONTACTS HCS AWG 28 - 24			
Hyperboloid socket (0.08 - 0.2mm ²) Round pin (0.08 - 0.2mm ²)	Part number Reel 9,000 pcs. 020.000377.2000 021.001006.1025	Part number Reel 300 pcs. 020.000377.2000.A2 021.001006.1025.A2	Part number Crimping Tool B287/28 - 24 B287/28 - 24
1mm STAMPED CONTACTS HCS AWG 24 - 20			
Hyperboloid socket (0.2 - 0.5mm ²) Round pin (0.2 - 0.5mm ²)	Part number Reel 9,000 pcs. 020.000378.2000 021.001007.1025	Part number Reel 300 pcs. 020.000378.2000.A2 021.001007.1025.A2	Part number Crimping Tool B287/24 - 20 B287/24 - 20





0.8mm STAMPED CONTACTS HCS AWG 32 - 28			
Hyperboloid socket (0.03 - 0.08mm ²) Round pin (0.03 - 0.08mm ²)	Part number Reel 9,000 pcs. 020.001018.2000 021.001035.1025	Part number Reel 300 pcs. 020.001018.2000.A2 021.001035.1025.A2	Part number Crimping Tool B287/32 - 28 B287/32 - 28
0.8mm STAMPED CONTACTS HCS AWG 28 - 24			
Hyperboloid socket (0.08 - 0.2mm ²) Round pin (0.08 - 0.2mm ²)	Part number Reel 9,000 pcs. 020.001019.2000 021.001036.1025	Part number Reel 300 pcs. 020.001019.2000.A2 021.001036.1025.A2	Part number Crimping Tool B287/28 - 24 B287/28 - 24
0.8mm STAMPED CONTACTS HCS AWG 24 - 20			
Hyperboloid socket (0.2 - 0.5mm ²) Round pin (0.2 - 0.5mm ²)	Part number Reel 9,000 pcs. 020.001020.2000 021.001037.1025	Part number Reel 300 pcs. 020.001020.2000.A2 021.001037.1025.A2	Part number Crimping Tool B287/24 - 20 B287/24 - 20

SOLDER

1mm MACHINED CONTACTS (solder pin 8mm)	
Hyperboloid socket Pin	Part number 090.000029.2000 070.000011.2000
1mm MACHINED CONTACTS (solder pin 6mm)	
Hyperboloid socket Pin	Part number 090.000030.2000 070.000012.2000

TOOLS

CRIMPING TOOLS FOR MACHINED CONTACTS

Hand crimping tool	Positioner
	
Part number B151	Part number B200
	
Part number B150	Part number B055/A

CRIMPING TOOLS FOR STAMPED CONTACTS

Hand crimping tools with feeder line for 300 pcs. reels	Termination Cross Section	Part number
	0.03 - 0.08mm ² (AWG 32-28) 0.08 - 0.2mm ² (AWG 28-24) 0.2 - 0.5mm ² (AWG 24-20)	B287/32 - 28 B287/28 - 24 B287/24 - 20
Applicators for Crimping Machines with Feeder Line	Termination Cross Section	Part number
	0.03 - 0.08mm ² (AWG 32-28) 0.08 - 0.2mm ² (AWG 28-24) 0.2 - 0.5mm ² (AWG 24-20)	B288/32 - 28 B288/28 - 24 B288/24 - 20
AMP/Schäfer ESP 100		
Applicators for Crimping Machines with Feeder Line	Termination Cross Section	Part number
	0.03 - 0.08mm ² (AWG 32-28) 0.08 - 0.2mm ² (AWG 28-24) 0.2 - 0.5mm ² (AWG 24-20)	B286/32 - 28 B286/28 - 24 B286/24 - 20
Kirsten PP3		

ASSEMBLY INSTRUCTIONS STRAIGHT FEMALE CABLE PLUG

	Stripping Length	
	Machined Contacts	Stamped Contacts
x	4mm	3mm
A	23mm	



- 1
- 2
- 3
- 4
- 5
- 6

► ASSEMBLY INSTRUCTIONS ANGLED FEMALE CABLE PLUG

	Stripping Length	
	Machined Contacts	Stamped Contacts
x	3mm	4mm
A	35mm	



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

ASSEMBLY INSTRUCTIONS STRAIGHT MALE CABLE PLUG

	Stripping Length	
	Machined Contacts	Stamped Contacts
x	4mm	3mm
A	23mm	



1



2



3



4



5



6



► ASSEMBLY INSTRUCTIONS ANGLED MALE CABLE PLUG

	Stripping Length	
	Machined Contacts	Stamped Contacts
x	4mm	3mm
A	35mm	



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

ASSEMBLY INSTRUCTIONS STRAIGHT MALE RECEPTACLE

	Stripping Length	
	Machined Contacts	Stamped Contacts
x	4mm	3mm



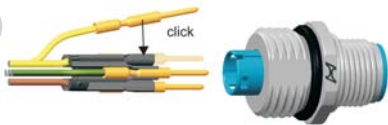
1



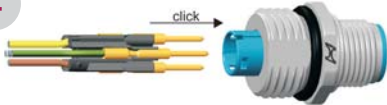
2



3



4



5



ASSEMBLY INSTRUCTIONS ANGLED MALE RECEPTACLE

	Stripping Length	
	Machined Contacts	Stamped Contacts
x	4mm	3mm



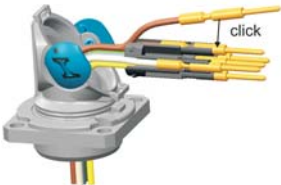
1



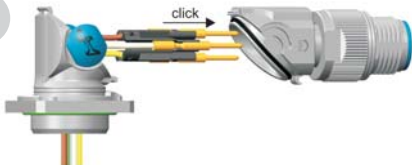
2



3



4



5



6



7

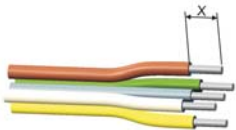


ASSEMBLY INSTRUCTIONS FEMALE PANEL FEED THROUGH

	Stripping Length	
	Machined Contacts	Stamped Contacts
x	4mm	3mm



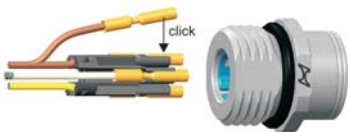
1



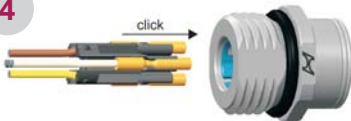
2



3



4




5





CABLE CLAMPS & ACCESSORIES

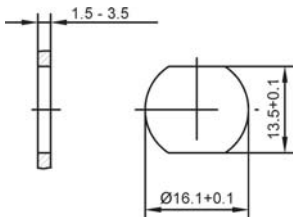
CABLE CLAMPS

For free assemble Cable Plugs	Part number
	<p>.293 Ø 4.5 - 6mm .294 Ø 6 - 8mm .283 Ø 8 - 10mm</p>

ACCESSOIRES

Protection Cap for Solder Pins	Part number
	<p>031.001087.1000</p>
Dust Shield Caps	Part number
	<p>C/BEL/9</p>

MOUNTING ARRANGEMENT FOR STRAIGHT RECEPTACLE AND PANEL FEED THROUGH



Disclaimer 2014

All of the information included in this catalogue is believed to be accurate at the time of printing. It is recommended, however, that users should independently evaluate the suitability of each product for their intended application and be sure that each product is properly installed, used and maintained to achieve desired results.

Smiths Connectors makes no warranties as to the accuracy or completeness of the information, and disclaims any liability regarding its use.

Smiths Connectors reserves the right to modify design and specifications, in order to improve quality, keep pace with technological development or meet specific production requirements.

No reproduction or use without express permission of editorial and pictorial content, in any manner.

SMITHS CONNECTORS PRODUCT LINES

PCB



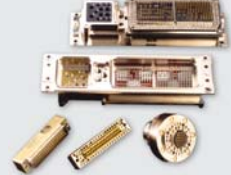
- ▶ Low, medium and high density board-to-board, cable to board and stacking
- ▶ Rugged standard
- ▶ Low profile
- ▶ Signal, power, coaxial & high speed configurations
- ▶ Self configurable board-to-board
- ▶ Spring probe connectors
- ▶ Mixed signal, power and coaxial contact connectors
- ▶ Different termination styles: solder cup, crimp, SMT and SMT flex, press fit, solder dip.

POWER



- ▶ Circular
- ▶ Configurable rectangular
- ▶ Ruggedized
- ▶ Single and Multi-Way Connectors
- ▶ Power contact up to 1,200 Amps
- ▶ Excellent performance in harsh environment conditions
- ▶ Cable assembling

EMI/EMP FILTER



- ▶ EMI/RFI filtering and transient protection
- ▶ RoHS compliant solderless filter connectors available
- ▶ Circular, ARINC, D-Subminiature Micro-D
- ▶ Filtered adapters for "bolt on" EMI /EMP solutions
- ▶ Filter hybrid capability

MODULAR/RECTANGULAR



- ▶ Configurable with modules for signal, power, coax, fiber optics and/or pneumatics
- ▶ Easy configuration in a single frame
- ▶ For rack & panel, and cable applications
- ▶ Guided hardware for blind
- ▶ D-sub connectors
- ▶ Micro-D style
- ▶ Signal connectors for hand held and docking stations

CIRCULAR



- ▶ Metal and Plastic
- ▶ Industrial M12, M23, M40, M58
- ▶ Crimp and solder terminations
- ▶ Various types of cable clamps
- ▶ Push Pull/ latch mechanism
- ▶ Color coding

HEAVY DUTY



- ▶ Ultra reliable hyperboloid contact
- ▶ Modular solution: signal, power, data contacts, and fiber optics
- ▶ High resistance in harsh environment
- ▶ EMC shielding
- ▶ Easy cable mounting
- ▶ High pressure up to 35K PSI, 250° C
- ▶ High temperature up to 440°C

SPRING PROBES



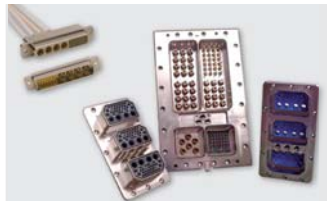
- ▶ Z-axis compliant
- ▶ Blind mate engagement
- ▶ Long cycle life
- ▶ High density
- ▶ Extreme miniaturization
- ▶ Printed circuit board test
- ▶ Bare board test
- ▶ Coaxial contacts

MIL/AERO STANDARD



- ▶ Standard military interface
- ▶ ARINC interface
- ▶ ARINC 801
- ▶ Custom inserts

HIGH SPEED COPPER/FIBER



- ▶ Quadrx and Twinax Connectors
- ▶ Rugged D-Sub Connectors
- ▶ ARINC and MIL-STD Contacts
- ▶ Micro Twinax/Quadrx
- ▶ Butt-Joint and Expanded Beam Contacts
- ▶ ARINC 801 Termini
- ▶ Floating Fiber Termini

SMITHS CONNECTORS

GLOBAL SUPPORT

AMERICAS

Hudson, MA
Irvine, CA
Kansas City, KS

1.978.568.0451
1.949.250.1244
1.913.342.5544

info@hypertronics.com
customerservice@sabritec.com
info@idinet.com

EUROPE

France
Germany
Italy
United Kingdom

33.2.32969176
49.991.250120
39.010.60361
44.20.8450.8033

info@hypertac.fr
info@hypertac.de
info@hypertac.it
info@hypertac.co.uk

ASIA

Bangalore, India
Shanghai, China
Singapore
Suzhou, China

91.80.4241.0500
65.6846.1655
65.6846.1655
65.6846.1655

info@hypertac.fr
asiacrs@smithsconnectors.com
asiacrs@smithsconnectors.com
asiacrs@smithsconnectors.com

FOR MORE INFORMATION | smithsconnectors.com



Copyright © 2014 Smiths Connectors | All Rights Reserved