CIRCULAR CONNECTORS

This range of connectors has been designed for application in mechanical engineering as well as in measurement and control engineering and in medical electronics.

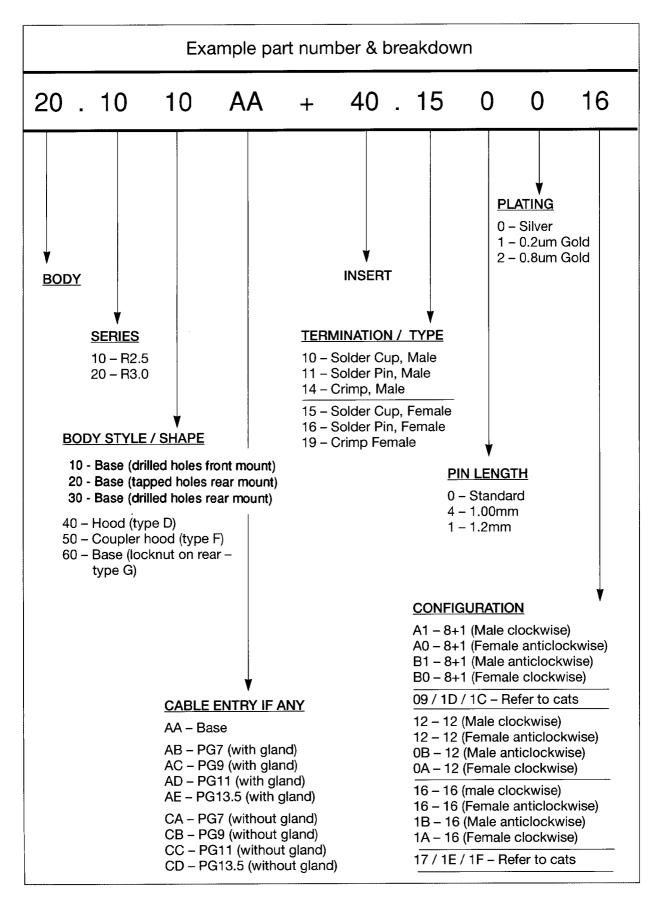
No of Contacts	Termination Type	Numeration	Working Current	Page of Brochure
	Solder cup	Clockwise/	75.0000	7/8
8 + 🖶	Solder pin	Anti-clockwise	7.5 amps	available on request
	Solder cup		76	7/8
12	Solder pin	Clockwise/ Anti-clockwise	7.5 amps	9
	Crimp		5.0 amps	available on request
	Solder cup		7 5	7
16	Solder pin	Clockwise/ Anti-clockwise	7.5 amps	9
	Crimp		5.0 amps	available on request
01	Solder cup	Clockwise	7.5 0000	13
21	Solder pin	CIOCKWISE	7.5 amps	available on request
00	Solder cup	Oleslavies	7.5	13
26	Solder pin	Clockwise	7.5 amps	available on request

<u>Temperature:</u> -40°C to +125°C	Protection: IP65 – IP67 according to DIN 40050 depending on the cable	<u>Contacts:</u> Copper alloy, nickel plated gold or silver finish
Cable entry:	gland (when mated)	
Sealing and strain relief by means		<u>Sealing:</u>
of PG cable gland	Materials: Insulation body:	Neoprene, light and oil resistant
Interlocking:	Thermoplastic resin,	
Screw lock by means of coupling	fibreglass reinforced, flame	Housing/Plating:
nut	retardant to UL94 V-O	Copper Alloy/nickel plated

NEW E.M.C. INNOVATIONS:

The European Commission Directive on E.M.C. comes completely into force on 1st January 1996. Contact Connectors' Series LS and Series R circular connectors will both have a version available with 360 degree protection early next year. In the meantime our extensive range of Cable Glands includes various types that have been specially designed for use with braided cable. Please call our technical helpline on 0181-453 0199 for further information.

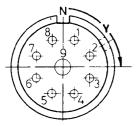
The R-Series Part Numbers Explained



SIZE 2.5 CONNECTORS WITH SOLDER CUP TERMINATION CONTACT INSERTS (CLOCKWISE NUMERATION)

No. of contacts: 8/1 Contact size: pin Ø 1 mm pin Ø 2 mm Termination: Solder Cups

View of mating side of male insert



Working current 7,5 A Rated voltage (VDE 0	
Insulation Group A	380 V ac
Insulation Group B	60 V ac
Insulation Group C	— V ac
Test voltage	
(according to VDE 01	10)
Contact/Contact	1.5 kV ac
Contact/Ground	2.5 kV ac
Insulating resistance	
≧ M Ohm	10 ⁸

Plug Connector

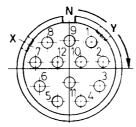
Contact Termination: Solder Cups 40.1000 A1 Contact Plating: 3–4 µm hard silver 40.1001 A1 Contact Plating: 0.2 µm hard gold 40.1002 A1 Contact Plating: 0.8 µm hard gold

Receptacle

Contact Termination: Solder Cups 40.1500 A0 Contact Plating: 3–4 µm hard silver 40.1501 A0 Contact Plating 0.2 µm hard gold 40.1502 A0 Contact Plating: 0.8 µm hard gold No. of contacts: 12 Contact size: pin Ø 1 mm

Termination: Solder Cups

View of mating side of male insert



Working current 7,5 A	
Rated voltage (VDE 01	10)
Insulation Group A	380 V ac
Insulation Group B	60 V ac
Insulation Group C	— V ac
Test voltage	
(according to VDE 011	0)
Contact/Contact	1.5 kV ac
Contact/Ground	1.5 kV ac
Insulating resistance	
≧ M Ohm	10ª

Plug Connector

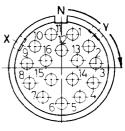
Contact Termination: Solder Cups 40.1000 12 Contact Plating: 3–4 µm hard silver 40.1001 12 Contact Plating: 0.2 µm hard gold 40.1002 12 Contact Plating: 0.8 µm hard gold

Receptacle

Contact Termination: Solder Cups 40.1500 12 Contact Plating: 3–4 µm hard silver 40.1501 12 Contact Plating 0.2 µm hard gold 40.1502 12 Contact Plating: 0.8 µm hard gold No. of contacts: 16 Contact size: pin Ø 1 mm

Termination: Solder Cups

View of mating side of male insert



Working current 7,5 A Rated voltage (VDE 0110) Insulation Group A 250 V ac Insulation Group B 60 V ac Insulation Group C — V ac Test voltage (according to VDE 0110) Contact/Contact 1.15 kV ac Contact/Ground 1.15 kV ac Insulating resistance ≧ M Ohm 10⁸

Plug Connector

Contact Termination: Solder Cups 40.1000 16 Contact Plating: 3–4 µm hard silver 40.1001 16 Contact Plating: 0.2 µm hard gold 40.1002 16 Contact Plating: 0.8 µm hard gold

Receptacle

Contact Termination: Solder Cups 40.1500 16 Contact Plating: 3–4 µm hard silver 40.1501 16 Contact Plating 0.2 µm hard gold 40.1502 16 Contact Plating: 0.8 µm hard gold

SIZE 2.5 CONNECTORS WITH SOLDER CUP TERMINATION CONTACT INSERTS (ANTI CLOCKWISE NUMERATION)

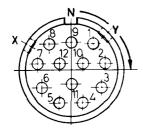
No. of contacts: 8/1 Contact size: pin Ø 1 mr		No. of contacts: 12 Contact size: pin Ø 1 mr	n
pin Ø 2 mr Termination: Solder Cup		Termination: Solder Cup)S
View of mating side		View of mating side	
of male insert		of male insert	
N		N	
		$\begin{array}{c} X \\ Y \\$	
Working current 7,5 A		Working current 7,5 A	
Rated voltage (VDE 0110		Rated voltage (VDE 0110	
Insulation Group A	380 V ac	Insulation Group A	380 V ac
Insulation Group B	60 V ac	Insulation Group B	60 V ac
Insulation Group C	Vac	Insulation Group C	V ac
Test voltage		Test voltage	
(according to VDE 0110)		(according to VDE 0110)	
Contact/Contact	1.5 kV ac	Contact/Contact	1.5 kV ac
Contact/Ground	2.5 kV ac	Contact/Ground	1.5 kV ac
Insulating resistance \geq M Ohm	10 ⁸	Insulating resistance	1.08
≦ W Onm	10°	<i>≧</i> M Ohm	10 ⁸
Plug Connector		Plug Connector	
Contact Termination: So	lder Cups	Contact Termination: So	lder Cups
40.1000 B1		40.1000 0B	
Contact Plating:		Contact Plating:	
3–4 µm hard silver		3–4 µm hard silver	
40.1001 B1		40.1001 0B	
Contact Plating:		Contact Plating:	
0.2 µm hard gold		0.2 µm hard gold	
40.1002 B1		40.1002 0B	
Contact Plating:		Contact Plating:	
0.8 µm hard gold		0.8 µm hard gold	
Receptacle		Receptacle	
Contact Termination: So	der Cups	Contact Termination: Sol	der Cups
40.1500 B0		40.1500 0A	
Contact Plating:		Contact Plating:	
3–4 µm hard silver		3-4 µm hard silver	
40.1501 B0		40.1501 0A	
Contact Plating		Contact Plating	
0.2 µm hard gold		0.2 µm hard gold	
40.1502 B0		40.1502 0A	
Contact Plating: 0.8 µm hard gold		Contact Plating: 0.8 µm hard gold	
U A UM DAM 000			

SIZE 2.5 CONNECTORS WITH SOLDER PIN TERMINATION CONTACT INSERTS (CLOCKWISE NUMERATION)

No. of contacts: 12 Contact size: pin Ø 1 mm

Termination: Solder pins Ø 0.6 x 3.5

View of mating side of male insert



Working current 7,5 A	
Rated voltage (VDE 0110)	
Insulation Group A	380 V ac
Insulation Group B	60 V ac
Insulation Group C	— V ac
Test voltage	
(according to VDE 0110)	
Contact/Contact	1.5 kV ac
Contact/Ground	1.5 kV ac
Insulating resistance	
≧ M Ohm	10 ⁸

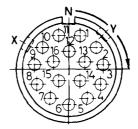
Plug ConnectorContact Termination: Solder pins40.1100 12Contact Plating:3-4 μm hard silver40.1101 12Contact Plating:0.2 μm hard gold40.1102 12Contact Plating:0.8 μm hard gold

Receptacle

Contact Termination: Solder pins 40.1600 12 Contact Plating: 3–4 µm hard silver 40.1601 12 Contact Plating 0.2 µm hard gold 40.1602 12 Contact Plating: 0.8 µm hard gold No. of contacts: 16 Contact size: pin Ø 1 mm

Termination: Solder pins Ø 0.6 x 3.5

View of mating side of male insert



Working current 7,5 A Rated voltage (VDE 0110) Insulation Group A 250 V ac Insulation Group B 60 V ac Insulation Group C ---Vac Test voltage (according to VDE 0110) Contact/Contact 1.15 kV ac Contact/Ground 1.15 kV ac Insulating resistance 10⁸ ≧ M Ohm

Plug Connector

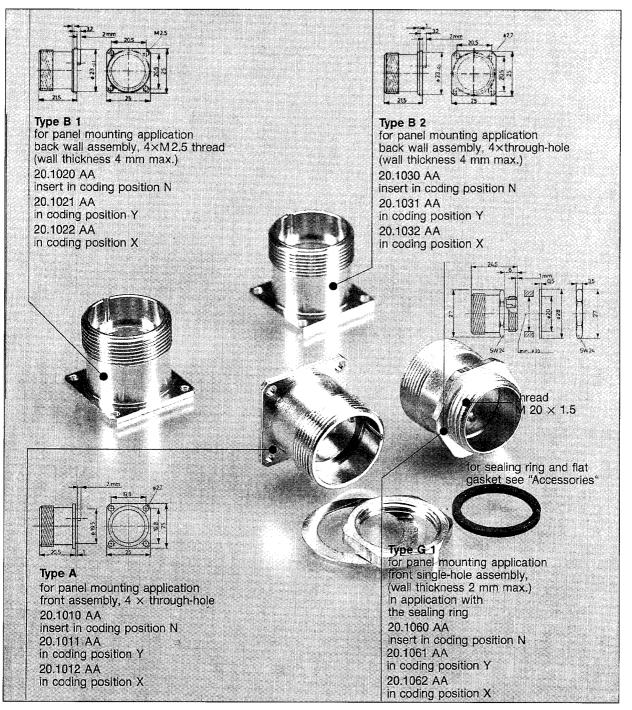
Contact Termination: Solder pins 40.1100 16 Contact Plating: 3–4 µm hard silver 40.1101 16 Contact Plating: 0.2 µm hard gold 40.1102 16 Contact Plating: 0.8 µm hard gold

Receptacle

Contact Termination: Solder pins 40.1600 16 Contact Plating: 3–4 µm hard silver 40.1601 16 Contact Plating 0.2 µm hard gold 40.1602 16 Contact Plating: 0.8 µm hard gold

EPIC[®] Series R

SIZE 2.5 CONNECTOR – FOR FRONT AND BACK PANEL ASSEMBLY

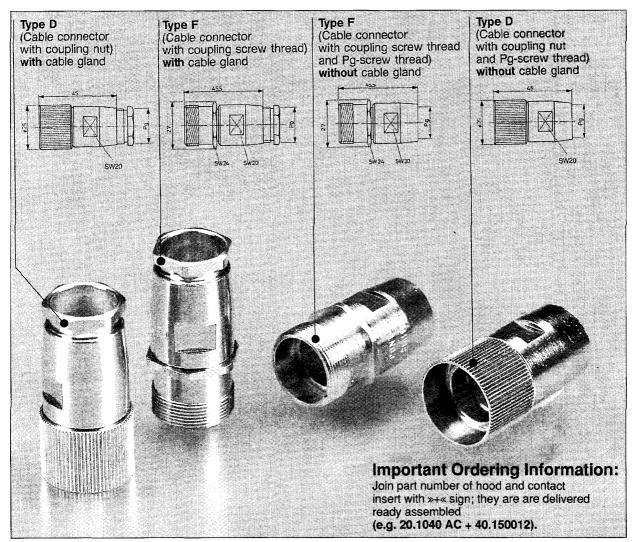


Important Ordering Information:

Join part number of housing and contact insert with »+« sign; they are are delivered ready assembled (e.g. 20.1040 AC + 40.150012).

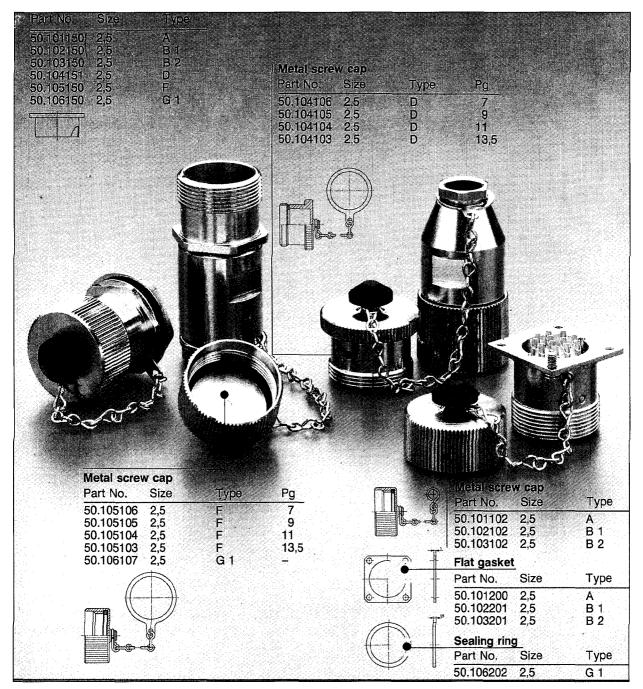
EPIC[®] Series R

SIZE 2.5 CABLE CONNECTOR



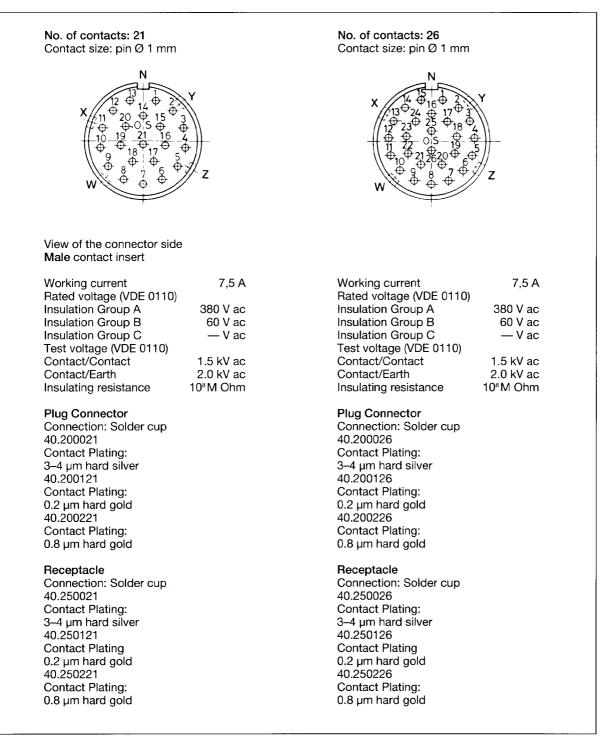
Par No.		Pg Size	Con- nector	Units / Pack		Part No.	Pg Size	Con- nector	Units / Pack	· · ·
			in coding position					in coding position		
20. 20. 20. 20. 20. 20. 20. 20. 20. 20.	1040 AB 1041 AB 1042 AB 1040 AC 1041 AC 1042 AC 1040 AD 1041 AD 1042 AD 1040 AE 1041 AE 1041 AE	7 7 9 9 11 11 13.5 13.5 13.5	N Y X Z Y X Z Y X	10 10 10 10 10 10 10 10 10 10 10	Type D with cable gland	20.1050 AB 20.1051 AB 20.1052 AB 20.1050 AC 20.1051 AC 20.1052 AC 20.1050 AD 20.1051 AD 20.1052 AD 20.1050 AE 20.1051 AE 20.1051 AE 20.1052 AE	7 7 9 9 11 11 13.5 13.5 13.5	N Y X Z Y X Z Y X Z Y X	10 10 10 10 10 10 10 10 10 10 10	Type F with cable gland
20. 20. 20. 20. 20. 20. 20. 20. 20. 20.	1040 CA 1041 CA 1042 CA 1040 CB 1041 CB 1042 CB 1042 CB 1040 CC 1042 CC 1042 CD 1042 CD	7 7 9 9 11 11 11 13.5 13.5 13.5	ZYXZYXZYX	10 10 10 10 10 10 10 10 10 10 10 10	Type D without cable gland	20.1050 CA 20.1051 CA 20.1052 CA 20.1050 CB 20.1051 CB 20.1052 CB 20.1050 CC 20.1050 CC 20.1051 CC 20.1052 CD 20.1051 CD 20.1052 CD	7 7 9 9 11 11 11 13.5 13.5 13.5	NY XNY XNY X NY XNY X NY X	10 10 10 10 10 10 10 10 10 10 10	Type F without cable gland

SIZE 2.5 ACCESSORIES

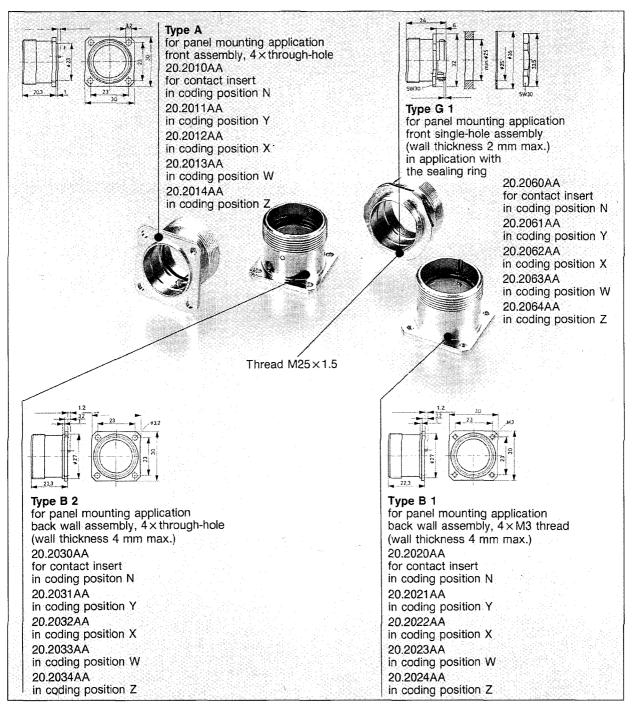


Part No.	Package	Part No.	Package	
50.101102	10	50.104105	10	
50.101150	10	50.104106	10	
50.101200	10	50.104151	10	
50.102102	10	50.105103	10	
50.102150	10	50.105104	10	
50.102201	10	50.105105	10	
50.103102	10	50.105106	10	
50.103150	10	50.105150	10	
50.103201	10	50.106107	10	
50.104103	10	50.106150	10	
50.104104	10	50.106202	10	

SIZE 3.0 CONTACT INSERTS



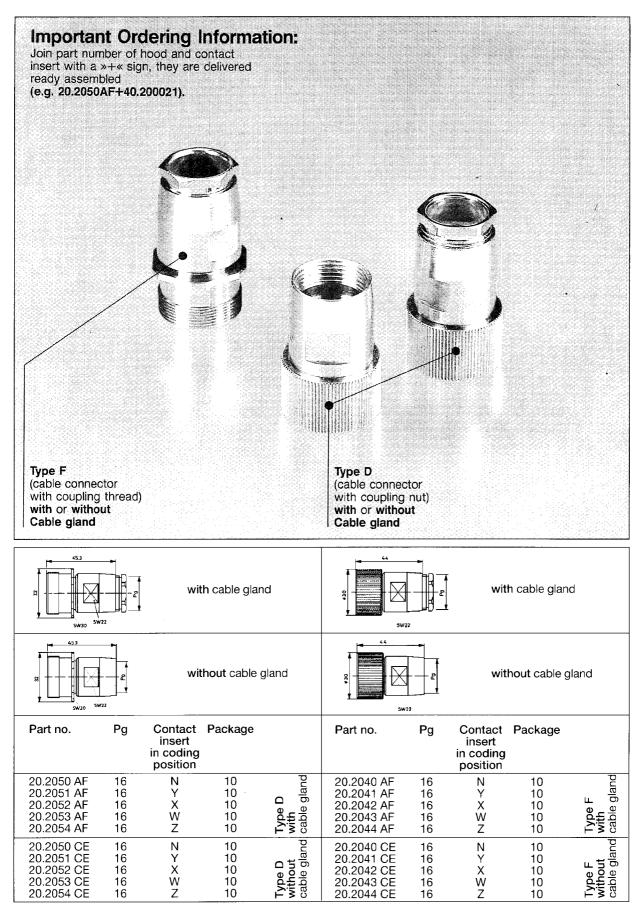
SIZE 3.0 ROUND CONNECTOR – FOR FRONT AND BACK PANEL ASSEMBLY



Important Ordering Information:

Join part number of housing and contact insert with »+« sign; they are are delivered ready assembled (e.g. 20.2010 AA + 40.150012)

SIZE 3.0 CABLE CONNECTOR



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