



MULTICONTACT CIRCULAR CONNECTORS

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INDEX

CIRCULAR

pg. 3-31



CRIMP

pg. 18-20



**COAXIAL
INSERTS**

pg. 21-22



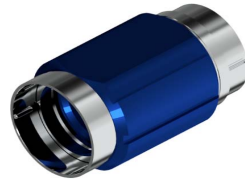
**CABLE OUTLET FOR
RECEPTACLES**

pg. 30



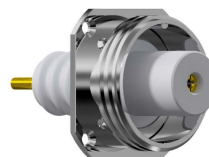
ASSEMBLY TOOLS

pg. 32-33



HIGH VOLTAGE

pg. 34



METAL CAPS

pg. 35

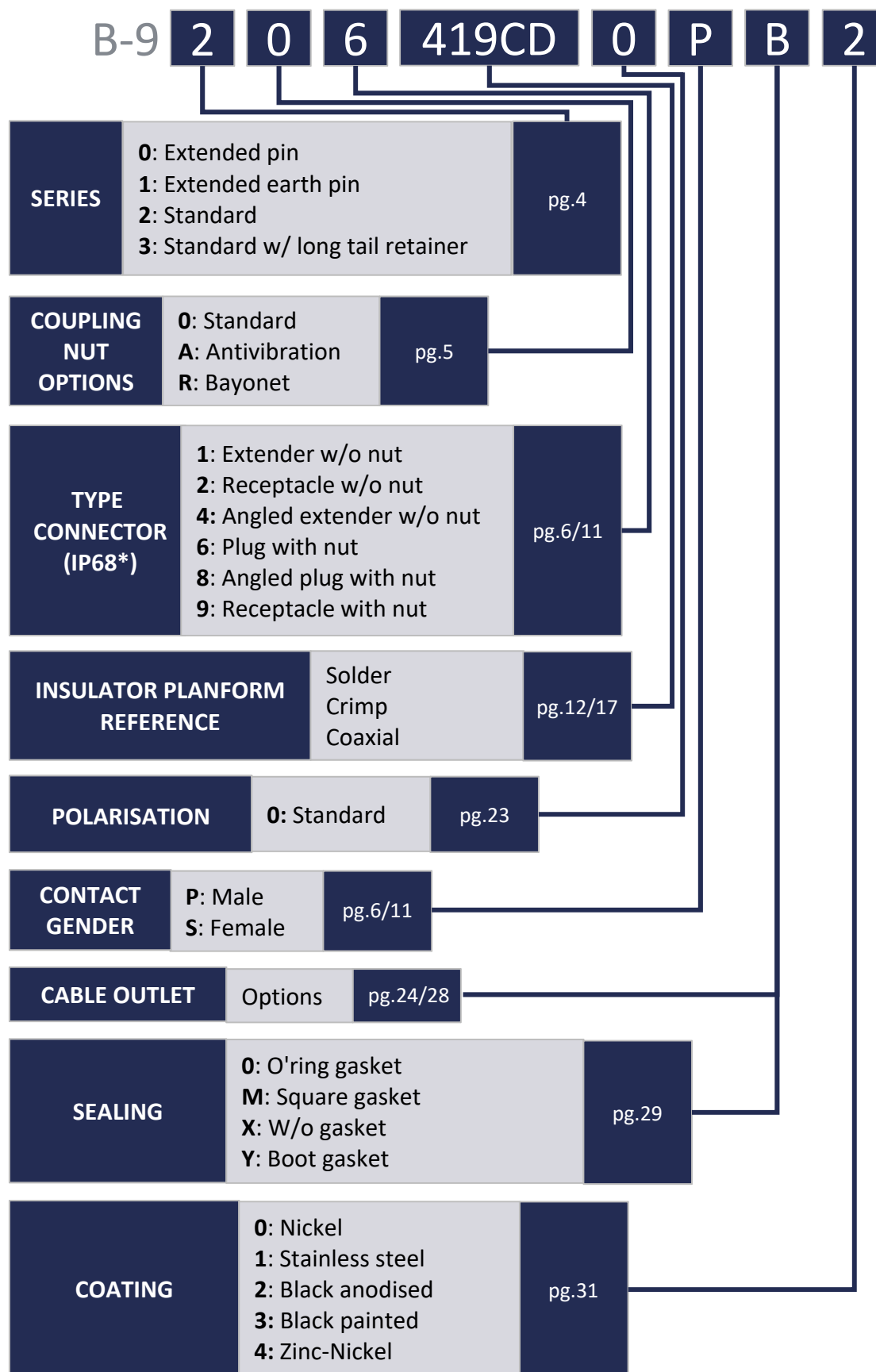


CARTER CONNECTOR

pg. 36-39



CODING

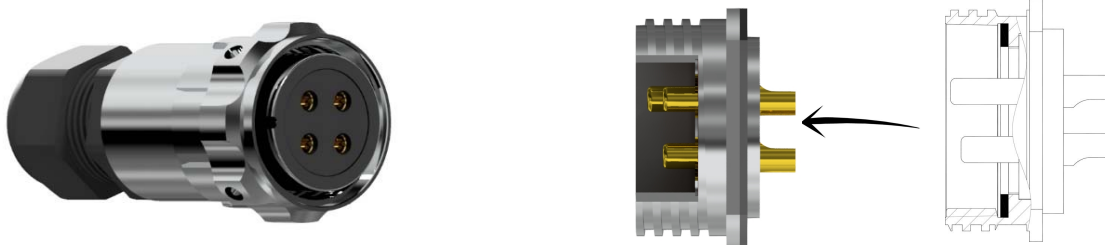


*Except plastic multi-cable gland (pg 27) and receptacle without gasket (pg 29)

SERIES

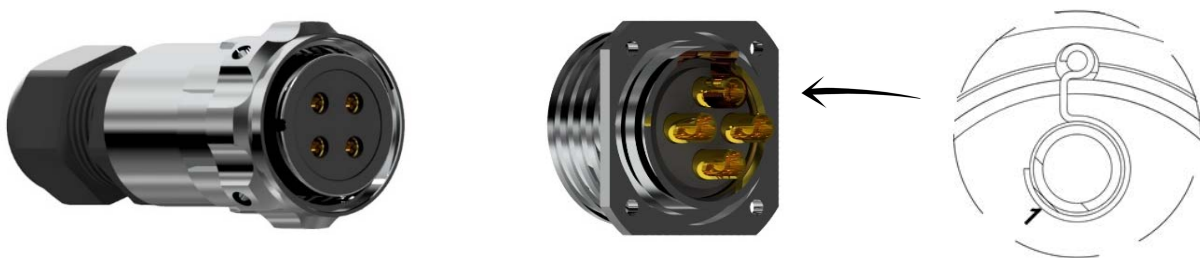
B-9 **0**

Series 90 connectors have a specific longer earth contact. Ensuring that it will be the first pole to be connected, and last to be disconnected.



B-9 **1**

Series 91 connectors have a specific longer earth contact connected to the housing by a copper band bridge. In this case the coating (p.31) must be conductive nickel-plated (0), stainless steel (1) or zinc-nickel (4).



B-9 **2**

Series 92 connectors (standard)



B-9 **3**

Series 93 connectors (standard). Long tail retainer for easy insulator removal or housing connection



COUPLING NUT OPTIONS

B-9 ☐ ☒ 0 ☐ ☐ ☐ ☐ ☐ ☐

Standard threaded connector

B-9 ☐ ☒ A ☐ ☐ ☐ ☐ ☐ ☐ ☐

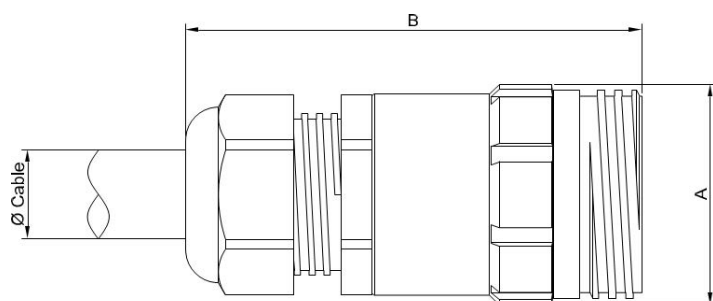
Threaded connector, with anti-vibration system, for vibration environments

B-9 ☐ ☒ R ☐ ☐ ☐ ☐ ☐ ☐ ☐

1/4 turn bayonet coupling system connector



EXTENDER WITHOUT COUPLING NUT

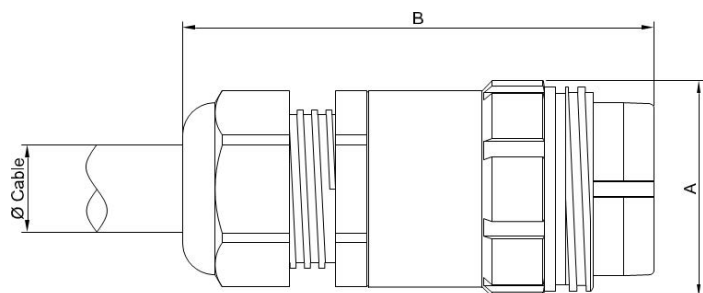
B-9 1 P

MALE EXTENDER WITHOUT COUPLING NUT

SIZE	T-10	T-20	T-30	T-40	T-70
Ø CABLE	2-10	5-14	7-25	11-32	54,5
ØA	24	32	46	62	105
B _{min}	59,5	72,5	72,5	96	249
B _{max}	65	78,5	82	107	

COMPATIBLE WITH

Female plug with coupling nut	Pg. 9
Female angled plug with coupling nut	Pg. 10
Female receptacle with coupling nut	Pg. 11

B-9 1 S

FEMALE EXTENDER WITHOUT COUPLING NUT

SIZE	T-10	T-20	T-30	T-40	T-70
Ø CABLE	2-10	5-14	7-25	11-32	54,5
ØA	23,5	30,5	45	57	105
B _{min}	63	72	72	95,5	227,5
B _{max}	68,5	78	81,5	106,5	

COMPATIBLE WITH

Male plug with coupling nut	Pg. 9
Male angled plug with coupling nut	Pg. 10
Male receptacle with coupling nut	Pg. 11

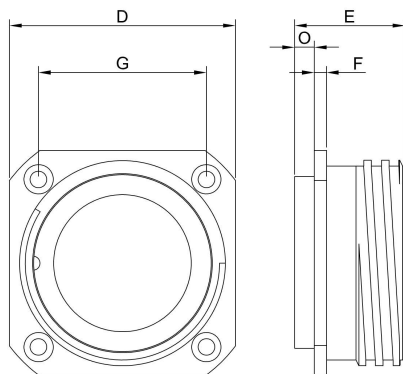
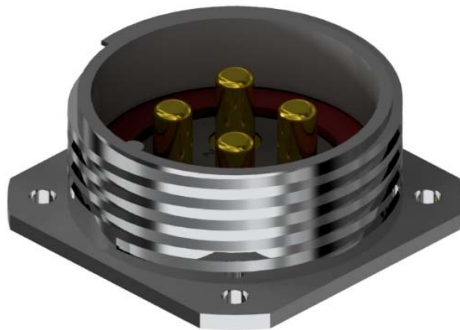
ALFA'R reserves the right to make dimensional changes without prior notice. If some dimensions are critical, please contact us so we can provide you updated information.

RECEPTACLE WITHOUT COUPLING NUT

B-9

2

P



MALE RECEPTACLE WITHOUT COUPLING NUT

SIZE	T-10	T-20	T-30	T-40	T-70
D	25	31	46	56	114
E	22	22,5	24	24	53,5
F	2,5	2,5	2,7	2,7	8,3
G	19	24	34	41	88
O	5	4	3,9	3,9	23,5

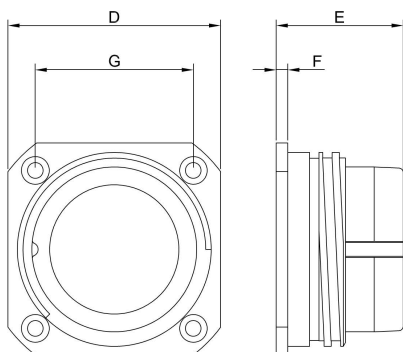
COMPATIBLE WITH

Female plug with coupling nut	Pg. 9
Female angled plug with coupling nut	Pg. 10
Female receptacle with coupling nut	Pg. 11

B-9

2

S



FEMALE RECEPTACLE WITHOUT COUPLING NUT

SIZE	T-10	T-20	T-30	T-40	T-70
D	25	31	46	56	114
E	24,5	25	25,2	25,2	68,7
F	2,5	2,5	2,7	2,7	8,3
G	19	24	34	41	88

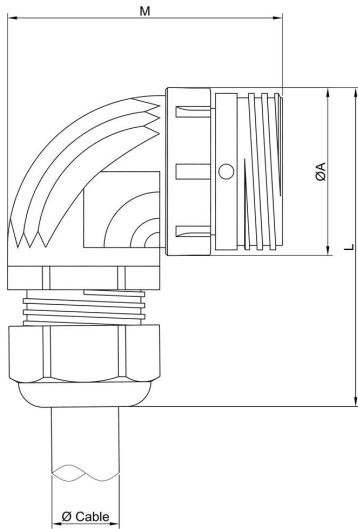
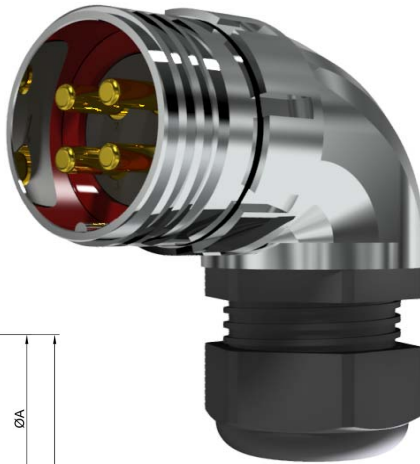
COMPATIBLE WITH

Male plug with coupling nut	Pg. 9
Male angled plug with coupling nut	Pg. 10
Male receptacle with coupling nut	Pg. 11

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ANGLED EXTENDER WITHOUT COUPLING NUT

B-9 4 P



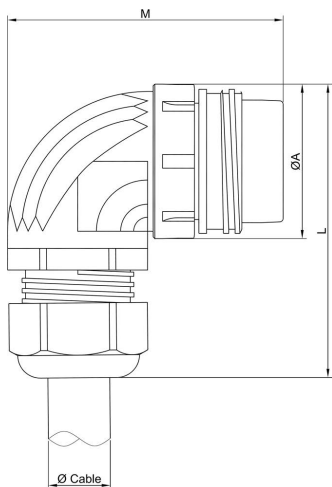
**MALE ANGLED EXTENDER
WITHOUT COUPLING NUT**

SIZE	T-10	T-20	T-30	T-40	T-70
Ø CABLE	2-10	5-14	7-25	11-32	55
ØA	23,8	32,0	45,0	62,0	105
M	67	62	74	83	249
Lmin	51,5	64	84,5	99,5	249
Lmax	53,5	66	86,5	101	

COMPATIBLE WITH

Female plug with coupling nut	Pg. 9
Female angled plug with coupling nut	Pg. 10
Female receptacle with coupling nut	Pg. 11

B-9 4 S



**FEMALE ANGLED EXTENDER
WITHOUT COUPLING NUT**

SIZE	T-10	T-20	T-30	T-40	T-70
Ø CABLE	2-10	5-14	7-25	11-32	54,5
ØA	23,8	32	45	62	105
M	57,5	68,4	80,1	89,6	249
Lmin	51,5	64	84,5	99,5	249
Lmax	53,5	66	86,5	101	

COMPATIBLE WITH

Male plug with coupling nut	Pg. 9
Male angled plug with coupling nut	Pg. 10
Male receptacle with coupling nut	Pg. 11

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PLUG WITH COUPLING NUT

B-9

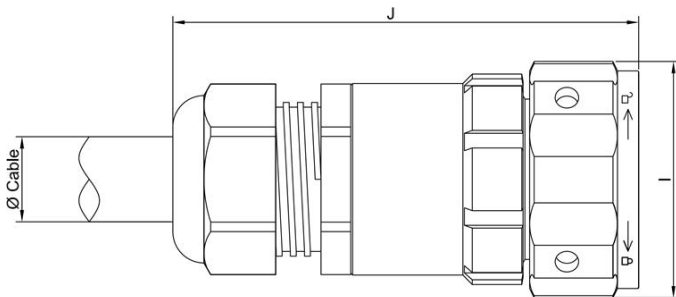
6

P



MALE PLUG WITH COUPLING NUT

SIZE	T-10	T-20	T-30	T-40	T-70
Ø CABLE	2-10	5-14	7-25	11-32	54,5
ØI	27	36,5	52	64,5	105
Jmin	65	76	76	99	249
Jmax	70,5	82	85,5	110	



COMPATIBLE WITH

Female extender without coupling nut	Pg. 6
Female angled extender w/o coupling nut	Pg. 8
Female receptacle without coupling nut	Pg. 7

B-9

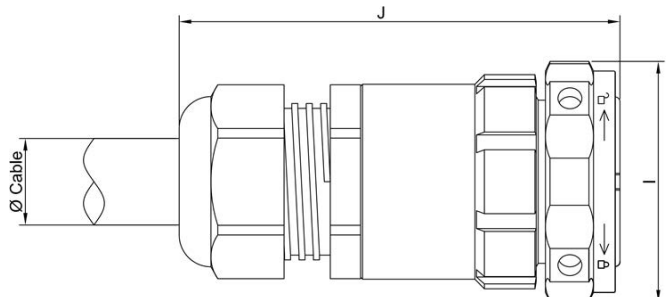
6

S



FEMALE PLUG WITH COUPLING NUT

SIZE	T-10	T-20	T-30	T-40	T-70
Ø CABLE	2-10	5-14	7-25	11-32	54,5
ØI	27	36,5	52	64,5	105
Jmin	58	68,5	68,5	92	249
Jmax	63,5	74,5	78	103	



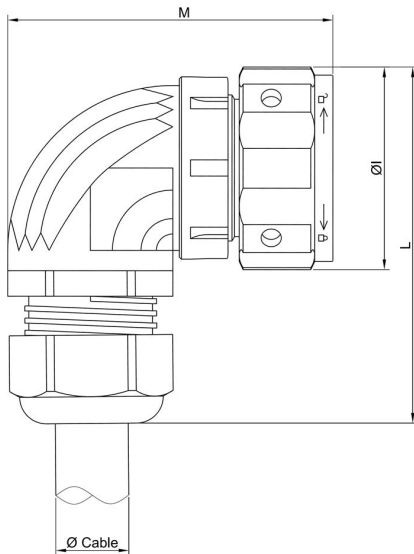
COMPATIBLE WITH

Male extender without coupling nut	Pg. 6
Male angled extender w/o coupling nut	Pg. 8
Male receptacle without coupling nut	Pg. 7

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ANGLED PLUG WITH COUPLING NUT

B-9 8 P



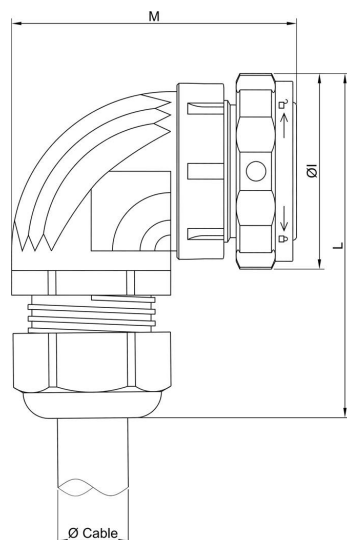
MALE ANGLED PLUG WITH COUPLING NUT

SIZE	T-10	T-20	T-30	T-40	T-70
Ø CABLE	2-10	5-14	7-25	11-32	54,5
ØI	26,8	36	50	60	105
M	58,3	68	80	90,5	249
Lmin	52,3	66	87	98,5	249
Lmax	54,3	68	89	100	

COMPATIBLE WITH

Female extender without coupling nut	Pg. 6
Female angled extender w/o coupling nut	Pg. 8
Female receptacle without coupling nut	Pg. 7

B-9 8 S



FEMALE ANGLED PLUG WITH COUPLING NUT

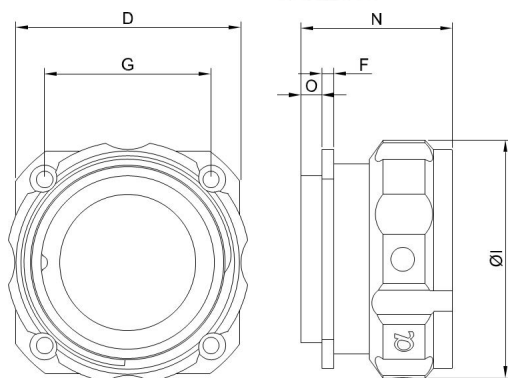
SIZE	T-10	T-20	T-30	T-40	T-70
Ø CABLE	2-10	5-14	7-25	11-32	54,5
ØI	26,8	36	50	60	105
M	50	61,2	81,5	82,4	249
Lmin	52,3	66	87	98,5	249
Lmax	54,3	68	89	100	

COMPATIBLE WITH

Male extender without coupling nut	Pg. 6
Male angled extender w/o coupling nut	Pg. 8
Male receptacle without coupling nut	Pg. 7

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RECEPTACLE WITH COUPLING NUT

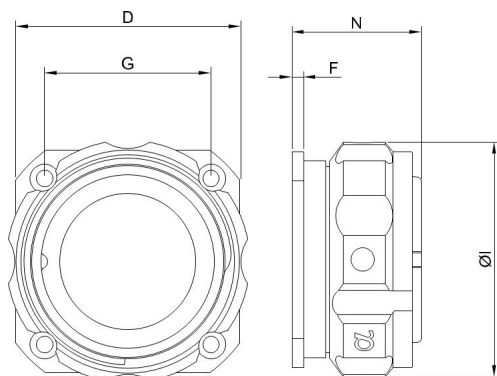
B-9 9 P

MALE RECEPTACLE WITH COUPLING NUT

SIZE	T-10	T-20	T-30	T-40	T-70
D	25	31	46	56	114
F	2,5	2,5	2,7	2,7	53,5
G	19	24	34	41	8,3
ØI	27	36,5	52	64,5	88
N	30	30,5	30,5	30,5	23,5
O	5	4	3,9	3,9	5

COMPATIBLE WITH

Female extender without coupling nut	Pg. 6
Female angled extender w/o coupling nut	Pg. 8
Female receptacle without coupling nut	Pg. 7

B-9 9 S

FEMALE RECEPTACLE WITH COUPLING NUT

SIZE	T-10	T-20	T-30	T-40	T-70
D	25	31	46	56	114
F	2,5	2,5	2,7	2,7	53,5
G	19	24	34	41	8,3
ØI	27	36,5	52	64,5	88
N	30	30,5	30,5	30,5	23,5

COMPATIBLE WITH

Male extender without coupling nut	Pg. 6
Male angled extender w/o coupling nut	Pg. 8
Male receptacle without coupling nut	Pg. 7

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NOMENCLATURE/SYMBOLS

B-9

19CD0

	19CD0	Insulator code*	
	150V/1050V	Working voltage/ Peak Voltage	
	TP	Material	TS: Thermostable
			TP: Thermoplastic N: Elastomer

*Code	
1	Size
9	No. of contacts
C	Variables
D	(CD= Crimp)
0	(CI= PCB)

SOLDER OR CRIMP CONTACTS									
									
Ø CONTACT	1	1,5	3	5	5,75	6	7	8	10
WORKING CURRENT (A)	7,5	10	25	50	80	50	64	80	125
CRIMP CABLE SECTION (mm²)	0,25	0,75	1,5		10				
	0,75	1,5	2,5	-	16	10	16	25	35
SOLDER CABLE SECTION (mm²)	1	2,5	4						
	0,75	1,75	5,1	13	-	10	16	25	35
CONTACT RESISTENCE (mΩ)	≤5								

COAXIAL CONTACTS		
		
DENOMINATION	DIN 41626	BNC

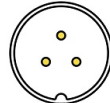
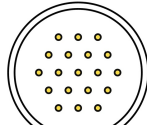
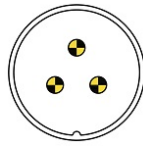
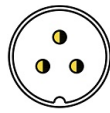
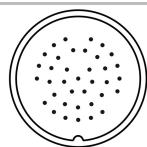
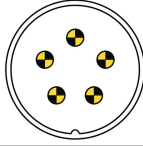
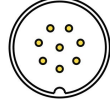
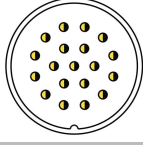
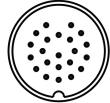
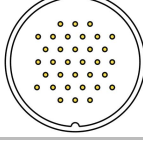
	25X02	Insulator code*	
	TP	Material	TS: Thermostable
			TP: Thermoplastic
			N: Elastomer

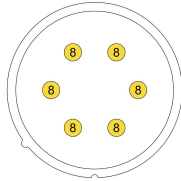
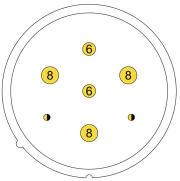
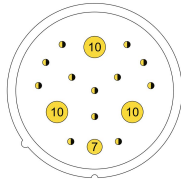
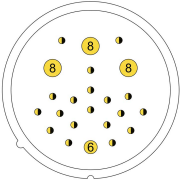
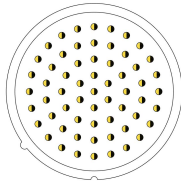
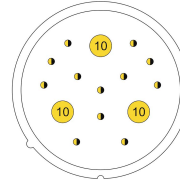
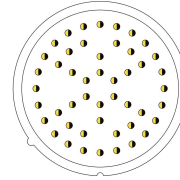
*Code	
2	Size
5	No. of elements
X	Coaxial
0	No. of coaxial contacts
2	

TECHNICAL CHARACTERISTICS - COAXIAL

	DIN 41626 (1.0/2.3)		BNC	
				
ELECTRICAL				
Impedance	50Ω	75Ω	50Ω	75Ω
Frequency range	0...2 GHz	0...1.5 GHz	0...4 GHz	0...1.5 GHz
V.S.W.R	≤ 1.23 typ.		≤ 1.15 typ.	≤ 1.5 typ.
Insulator resistance	≥ 10 ⁴ MΩ		> 5 GΩ	
Inner contact resistance	≤ 10 mΩ		< 1.5 mΩ	
Outer contact resistance	≤ 3 mΩ		< 1 mΩ	
Test voltage	750 V rms		--	
Work voltage	350 V rms	250 V rms	500 V rms	
Maximum power	--		80W (1 GHz)	--
MECHANICAL				
Mating cycles	>5000			
ENVIRONMENTAL				
Temperature range	-55°C + 125°C		-65°C + 165°C	
Quality test	DIN 41626-T2		IEC169-8	IEC168-8
Climatic class according IEC 68	55/125/56		65/165/21	55/155/21
MATERIALS				
Body	Copper alloy			
Inner contact	Copper alloy			
Insulator	PTFE			
Spring	CuBe		--	
Clip	CuBe			
Crimp ferrule	Soft copper			
Body coating	Au			
Inner contact coating	Au			
Clip coating	Ni			

CRIMP CONTACT DISTRIBUTION. PLANFORMS

T10		T20		T30		T40	
	19CD0 150V/1050V TP		23LCD 540V/1700V TP		319CD 390V/1750V TP		43CDA 580V/2100V TP
	114CD 150V/1050V TP		23CD0 440V/1400V TP		337CD 175V/2100V N		45CD0 500V/2000V TP
			28CD0 270V/1400V TP				419CD 400V/1750V TP
			222CD 150V/1050V N				434CD 355V/1750V TP

T70			
	76CD0 6 Cont. Ø8		77CD0 3 Cont. Ø8 2 Cont. Ø6 2 Cont. Ø3
	716CD 3 Cont. Ø10 1 Cont. Ø7 12 Cont. Ø3		723CD 3 Cont. Ø8 1 Cont. Ø6 19 Cont. Ø3
	761CD 61 Cont. Ø3		
			715CD 3 Cont. Ø10 12 Cont. Ø3
			748CD 48 Cont. Ø3

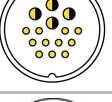
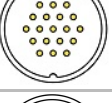
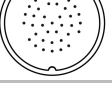
NOTE: Crimp contacts are supplied separately. See pages 18 to 20 for more information.

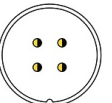
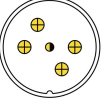
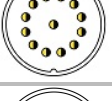
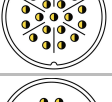
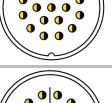
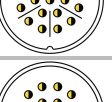
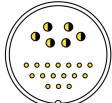
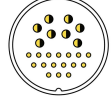
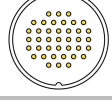
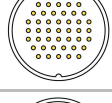
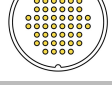
SOLDER CONTACT DISTRIBUTION. PLANFORMS

T10	
	13U00 270V/1500V TS
	14V00 270V/1500V TS
	17P00 150V/1050V TS

T20	
	22B00 490V/2100V TS
	23AL0 540V/1700V TS
	23C00 440V/1400V TS
	24E00 400V/1400V TS
	25D00 370V/1400V TS
	25S00 370V/1400V TS
	26R00 300V/1400V TS
	27E00 370V/1400V TS
	27X00 300V/1400V TS
	28T00 270V/1400V TS
	29AE0 280V/1400V TS
	210AO 280V/1050V TS
	212AF 270V/1050V TS
	213AN 270V/1050V TS
	222P0 150V/1050V N

SOLDER CONTACT DISTRIBUTION. PLANFORMS

T30	
	32F00
	525V/1750V
	33M00
	525V/1750V
	34H00
	490V/1750V
	37Y00
	470V/1750V
	39J00
	450V/1750V
	315K0
	355V/1750V
	319L0
	390V/1750V
	337P0
	175V/2100V
	N

T40	
	44Q00
	580V/2500V
	45G00
	420V/2500V
	47M00
	420V/2500V
	48M00
	420V/2500V
	413AB
	420V/1750V
	419AR
	400V/1750V
	419AN
	400/1750V
	419E0*
	400V/1750V
	419EN*
	400V/1750V
	419T0**
	400V/1750V
	419TN**
	400/1750V
	TS
	422AC
	355V/1750V
	424AA
	355V/1750V
	439R0
	270V/1750V
	443AP
	270V/1750V
	448AP
	270V/1750V
	TS

NOTE:

* 7 center leader pins (earth), only for females. Not compatible with males 419T0 or 419TN

**12 outer delayed pins, only for males. Not compatible with females 419E0 or 419EN

CRIMP COAXIAL CONNECTOR DISTRIBUTION. PLANFORMS

T20	
	22X02
	TP
	23X03
	TP
	24X04
	TP
	25X02
	2 Cont. Coax
	26X03
	3 Cont. Coax
	27X02
	2 Cont. Coax
	TP

T30	
	32X02
	TP
	37X07
	TP
	39X05
	4 Cont. Coax
	TP
	315X4
	4 Cont. Coax
	TP

T40	
	44X04
	TP
	45X05
	TP
	47X07
	TP
	48X04
	4 Cont. Coax
	TP
	413XD
	TP
	419XJ
	TP
	422X6
	6 Cont. Coax
	424X8
	8 Cont. Coax
	TP

	DIN 41626 (1.0/2.3)
	BNC (ADAPTED)
	1.5mm ELECTRICAL CONTACTS
	3mm ELECTRICAL CONTACT

NOTE: Coaxial connectors are always crimp type and they are supplied separately (see pages 21-22).
The electrical contacts are included in the insulator and they are solder type.

CRIMP CONTACTS

Contacts Ø1



MAT

Material
Contact: Copper alloy

COA

Coating
Contact: Gold on Nickel / Silver

Insulator	Cable section		ALFA'R CODE	
	mm ²	AWG	Male	Female
19CD 114CD	0.14/0.50	25/20	B-MC-10-02/05	B-FC-10-02/05
	0.75/1	19/17	B-MC-10-07/10	B-FC-10-07/10
222CD 337CD	0.14/0.50	25/20	B-MC-10-01/05-A	B-FC-10-01/05-A
	0.75/1	19/17	B-MC-10-07/10-A	B-FC-10-07/10-A
Tools				
Crimping		Insertion	Extractor	
B-EIN-C-1-PNT10		B-EIN-MT-10	B-EIN-MD-10	

Contacts Ø1,5



MAT

Material
Contact: Copper alloy
Retainer: Stainless steel

COA

Coating
Contact: Gold on Nickel / Silver

Insulator	Cable section		ALFA'R CODE	
	mm ²	AWG	Male	Female
23LCD 28CD 319CD 434CD	0.75	19/18	B-MC-15-07	B-FC-15-07
	1.5	16/15	B-MC-15-15	B-FC-15-15
	2.5	14/13	B-MC-15-25	B-FC-15-25
Tools				
Crimping		Insertion	Extractor	
B-EIN-C-1-PNT30		Manually	B-EIN-MD-15	

CRIMP CONTACTS

Contacts Ø3



MAT

Material
Contact: Copper alloy
Retainer: Stainless steel

COA

Coating
Contact: Gold on Nickel / Silver



Insulator	Cable section		ALFA'R CODE	
	mm ²	AWG	Male	Female
23CD 419CD 77CD	1.5	16/15	B-MC-30-15	B-FC-30-15
715CD 716CD 723CD	2.5	14/13	B-MC-30-25	B-FC-30-25
748CD 761CD	4	12/11	B-MC-30-40	B-FC-30-40
Tools				
Crimping		Insertor	Extractor	
B-EIN-C-1-PNT30		Manually	B-EIN-MD-30	

Contacts Ø5,75



MAT

Material
Contact: Copper alloy
Retainer: PET
Spring: Stainless steel

COA

Coating
Contact: Gold on Nickel / Silver



Insulator	Cable section		ALFA'R CODE	
	mm ²	AWG	Male	Female
43CDA	10	7	B-MC-57-100	B-FC-57-100
45CD	16	5	B-MC-57-160	B-FC-57-160
Tools				
Crimping		Insertor	Extractor	
B-EIN-C-1-HH-4-70		Manually	B-EIN-MD-57	

CRIMP CONTACTS

High current contacts 7

MAT

Material

Contact: Copper alloy
Retainer: PET

COA

Coating

Contact: Silver



Ø Contact	Insulator	Cable section		ALFA'R CODE	
		mm ²	AWG	Male	Female
4	-	5.3	10	B-AI5M4C53	B-AI5F4C53
5	-	8.4	8	B-AI5M5C84	B-AI5F5C84
6	77CD0	10.5	7	B-AI5M6C105	B-AI5F6C105
	723CD				
7	716CD	16.8	5	B-AI5M7C168	B-AI5F7C168
8	76CD0	26.7	3	B-AI5M8C267	B-AI5F8C267
	77CD0				
	723CD				
10	715CD	33.6	2	B-AI5M10C336	B-AI5F10C336
	716CD				
12	-	53.5	1/0	B-AI5M12C535	B-AI5F12C535
14	-	67.4	2/0	B-AI5M14C674	B-AI5F14C674
16	-	85	3/0	B-AI5M16C850	B-AI5F16C850
Ø Contact	Tools				
	Crimping		Insertion	Extractor	
4	B-EIN-C-1-HH-4-70		Manually	B-EIN-MD-AI4	
5				B-EIN-MD-AI5	
6				B-EIN-MD-AI6	
7				B-EIN-MD-AI7	
8				B-EIN-MD-AI8	
10				B-EIN-MD-AI10	
12				B-EIN-MD-AI12	
14				B-EIN-MD-AI14	
16				B-EIN-MD-AI16	

COAXIAL CONNECTORS (INSERTS)

DIN 41626 (1.0/2.3)



COA

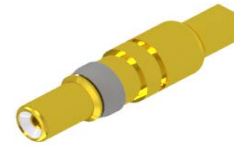
Coating

Contact: Gold over nickel
Body: Gold over nickel

MAT

Material

Contact: Copper alloy
Insulator: PTFE
Retainer: Stainless steel



Cable	Ω	ALFA'R CODE		CRIMPING TOOL
		Male	Female	
TX-20	75	A-1.0-10C16-75-I	A-1.0-20C16-75-I	A-EIN-C-1-C61
RG-178	50	A-1.0-10C18-50-I	A-1.0-20C18-50-I	
RG-196		A-1.0-10C25-75-I	A-1.0-20C25-75-I	
RG-179	75	A-1.0-10C25A-50-I	A-1.0-20C25A-50-I	
RG-316	50	A-1.0-10C26-50-I	A-1.0-20C26-50-I	A-EIN-C-1-6G1K
RG-174		A-1.0-10C26B-75-I	A-1.0-20C26B-75-I	
RG-188		A-1.0-10C27-75-I	A-1.0-20C27-75-I	
RG-187	75	A-1.0-10C27-75-I	A-1.0-20C27-75-I	
TZC-75101				
FLEX-2				
Tools				
Inserter			Extractor	
Manually			B-EIN-MD-1.0	

BNC (adapted)



COA

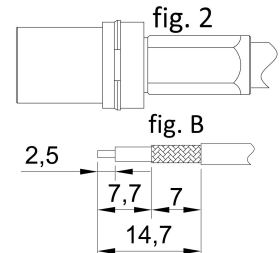
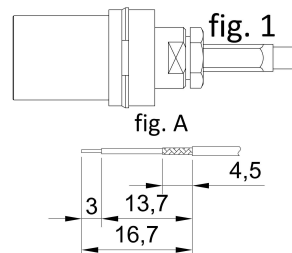
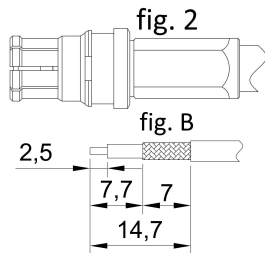
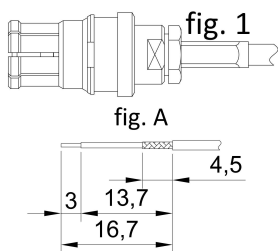
Coating

Contact: Gold over nickel
Body: Nickel

MAT

Material

Contact: Copper alloy
Body: Copper alloy
Insulator: PTFE
Retainer: Stainless steel



Cable	Ω	ALFA'R CODE		FIG.	CRIMPING TOOL
		Male	Female		
TX-20	75	A-BNC-10C16-75-I	A-BNC-20C16-75-I	1 A	A-EIN-C-1-C61
RG-178	50	A-BNC-10C18-50-I	A-BNC-20C18-50-I		
RG-196		A-BNC-10C25-75-I	A-BNC-20C25-75-I		
RG-179	75	A-BNC-10C25A-50-I	A-BNC-20C25A-50-I		
RG-316	50	A-BNC-10C25A-50-I	A-BNC-20C25A-50-I		A-EIN-C-1-641

COAXIAL CONNECTORS (INSERTS)

Cable	Ω	ALFA'R CODE		FIG.		CRIMPING TOOL
		Male	Female			
RG-174	50	A-BNC-10C26-50-I	A-BNC-20C26-50-I	1	A	A-EIN-C-1-641
RG-188						
RG-187						
TZC-75101						
FLEX-2	75	A-BNC-10C26B-75-I	A-BNC-20C26B-75-I	2	B	A-EIN-C-1-931
FLEX-3		A-BNC-10C27-75-I	A-BNC-20C27-75-I			
TZC-75024		A-BNC-10C35-75-I	A-BNC-20C35-75-I			
CM-195 DM		A-BNC-10C36A-75-I	A-BNC-20C36A-75-I			
L910-34		A-BNC-10C39-75-I	A-BNC-20C39-75-I			
L910-39		A-BNC-10C44-75-I	A-BNC-20C44-75-I			
0.6-2.8		A-BNC-10C44A-75-I	A-BNC-20C44A-75-I			
VK-5		A-BNC-10C45-75-I	A-BNC-20C45-75-I			
S 0.4/2.5		A-BNC-10C47-75-I	A-BNC-20C47-75-I			
FLEX-4						
FLEX-5						
RG-58		50	A-BNC-10C50-50-I			
RG-141						
RG-303						
RG-142	A-BNC-10C50A-50-I		A-BNC-20C50A-50-I			
RG-400	A-BNC-10C54-50-I		A-BNC-20C54-50-I			
RG-223	A-BNC-10C59-75-I		A-BNC-20C59-75-I			
ST-214	A-BNC-10C60-75-I		A-BNC-20C60-75-I			
FLEX-6	A-BNC-10C61-75-I		A-BNC-20C61-75-I			
RG-59						
0.8-0.7						
1505A	75	A-BNC-10C61B-75-I	A-BNC-20C61B-75-I	2	B	A-EIN-C-1-341
9889						
VK-6						
LMR-240		50	A-BNC-10C-61D-50-I			
TF-2240	75	A-BNC-10C67-75-I	A-BNC-20C67-75-I	2	B	A-EIN-C-1-51
RG-6 CATV		A-BNC-10C68-75-I	A-BNC-20C68-75-I			
FLEX-7		A-BNC-10C74-75-I	A-BNC-20C74-75-I			
5D-FB	50	A-BNC-10C76-50-I	A-BNC-20C76-50-I			
LMR-300		A-BNC-10C76A-50-I	A-BNC-20C76A-50-I			
VK-49	75	A-BNC-10C77-75-I	A-BNC-20C77-75-I			
Tools						
Inserter			Extractor			
Manually			B-EIN-MD-BNC			

POLARISATION

INSULATOR ANGULAR DISPLACEMENT

B-9 W

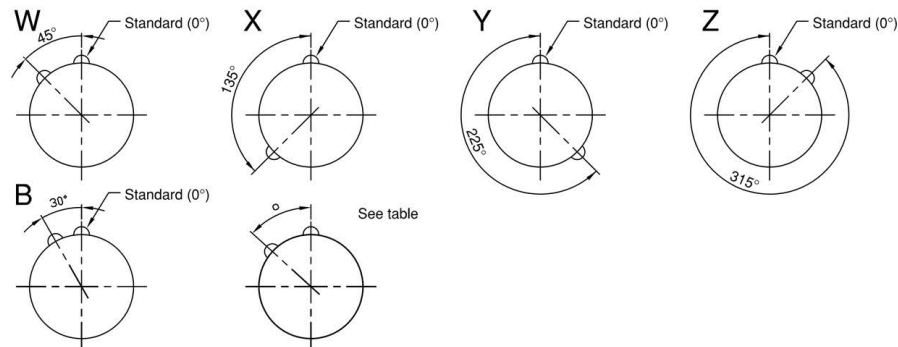
Using polarisation (insulator angular displacement) we prevent incorrect interconnections when several connectors are sharing same platform. In this way, we ensure that each connector will only be mated with its corresponding counterpart.

Coding:

According to the table, the corresponding letter for the polarisation will be added. For a male connector, when viewed from the interconnection side, the angular displacement is counter clockwise. (Clockwise when viewed from the wiring side).

For a female connector, when viewed from the interconnection side, the angular displacement is clockwise. (Counter clockwise when viewed from the wiring side).

CODE	A	B	W	C	D	E	F	G	X	H	I	J
°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°
CODE	K	L	Y	M	N	P	Q	R	Z	S	T	
°	195°	210°	225°	240°	255°	270°	285°	300°	315°	330°	345°	



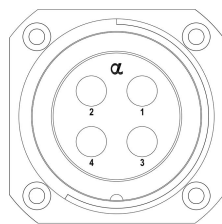
In case where the polarisation is not specified in the table, the coding indicates the angular displacement value.

Connectors non polarised (standard) coding is 0.

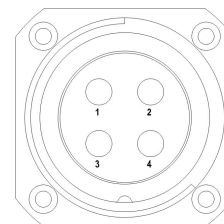
B-9 0

Male connector

Female connector



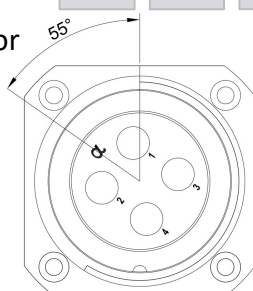
Interconnection face
(front)



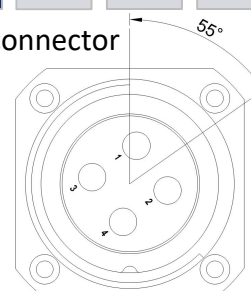
B-9 55

Male connector

Female connector



Interconnection face
(front)



CABLE CLAMP

B-9 A

To ensure an appropriate cable outlet, a wide variety of cable gland types are offered: Plastic glands (standard), metal glands, earth connection gland, flexible spiral gland, for corrugated tube gland,...

CABLE CLAMP							
Connector size	Ø of the cable (mm)		Metric	Cable outlet coding			
	Min	Máx		Plastic	Metal	Earth contact	Spiral plastic
T-10	2	7	M-16	A	E	I	SA
	4.5	10		D	H	L	SD
T-20	5	10	M-20	A	E	I	SA
	7	13		B	F	J	SB
	10	14		D	H	L	SD
T-30	7	15	M-32	B	F	J	SB
	11	21		C	G	K	SC
	18	25		D	H	L	SD
T-40	11*	23	M-40	A	E	I	SA
	19	28		B	F	J	SB
	22	32		D	H	L	SD
T-70/CARTER	28	39	M-63	A	E	I	SA
	34	45		B	F	J	SB

*Adding a reducer part P/N. N050SI00TA0 (9-14mm)

PLASTIC CABLE CLAMP (standard)

Available colours

RAL 7001 silver grey
RAL 7035 light grey
RAL 9005 black / UV resistant

RAL

Material

Body: Polyamide
Seal: EPDM, silicone

MAT

IP

Protection

IP 68 - 5 bar

TEMP

Temperature range

Static: from -40 °C to +100 °C
Dynamic: from -20 °C to +100 °C



CABLE CLAMP

METALLIC CABLE CLAMP

MAT

Material

Body: Nickered Brass
 Insert: Polyamide
 Seal: EPDM, silicone

IP

Protection

IP 68 - 10 bar

TEMP

Temperature range

from -30 °C to +100 °C
 up to 220°C on demand

EARTH CONTACT METALLIC
CABLE CLAMP

MAT

Material

Body: Nickered Brass
 Insert: Polyamide
 Seal: EPDM, silicone

IP

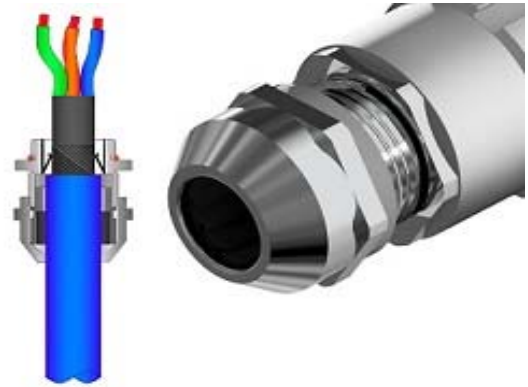
Protection

IP 68 - 10 bar

TEMP

Temperature range

from -30 °C to +100 °C
 up to 220°C on demand

SPIRAL PLASTIC
CABLE CLAMP

RAL

Available colours

RAL 7001 silver grey
 RAL 7035 light grey
 RAL 9005 black / UV resistant

MAT

Material

Body: Polyamide
 Sealed: EPDM, silicone

IP

Protection

IP 68 - 5 bar

TEMP

Temperature range

from -20 °C to +100 °C



CABLE CLAMP

CORRUGATED TUBE CABLE CLAMP						
Connector size	Ø tube (mm)			Metric	Cable outlet coding	
	nom	ext	int			
T-10	10	13	10	M-16	FB	
	12	15,8	12		FC	
T-20	12	15,8	12	M-20	FD	
	16	21,2	16,5		FE	
T-30	27,5	34,5	29	M-32	FF	
T-40	35	42,5	36	M-40	FG	
T-70/CARTER	48	54,5	48	M-63	FH	

CORRUGATED TUBE
CABLE CLAMP

RAL

Available colors

RAL 7035 light gray
RAL 9005 black / UV resistance

MAT

Material

Body: Polyamide
Sealed: EPDM, silicone

IP

Protection

IP 68 - 5 bar
IP 69K according to DIN 40050 T.9

TEMP

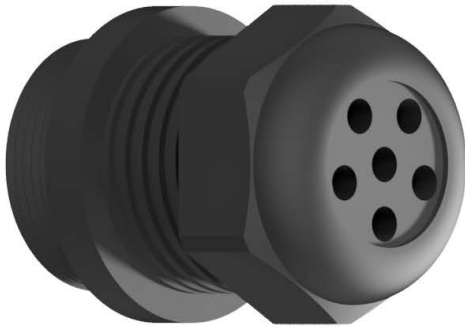
Temperature range

from -30 °C to +100 °C



CABLE CLAMP

PLASTIC MULTI-CABLE CLAMP



RAL

Available colors

RAL 7001 silver grey

RAL 7035 light grey

RAL 9005 black / UV resistant

MAT

Material

Body: Polyamide

Seal: NBR, VITON, EPDM, silicone

IP

Protection

IP 54

TEMP

Temperature range

Static: from -40 °C to +100 °C

MULTI-CABLE CLAMP					
Connector size	Num. Of Cables	Ø cable (mm)	Metric	Coding	Material
T-10	2	2	M-16	J01	NBR
		3		J02	
		4		J03	
T-20	2	5	M-20	J04	
		6		J05	
		4		J06	
	3	5.3		J07	
		5.8		J08	
		4		J09	
	4	5		J10	
		2		J11	
	4	3		J12	
		5		JV1	VITON
	2	6		JV2	

CABLE CLAMP

MULTI-CABLE CLAMP					
Connector size	Num. Of Cables	Ø cable (mm)	Metric	Coding	Material
T-30	2	7	M32	J13	NBR
		8		J14	
		9		J15	
	3	7		J16	
		8		J17	
	4	6		J18	
		7		J19	
	5	6		J20	
	6	5		J21	
	8	4		J22	
		5		J23	
	9	4		J24	
T-40	2	9	M40	J25	NBR
	3	10		J26	
	4	8		J27	
		9		J28	
	5	8		J29	
		9		J30	
	6	7		J31	
	8	6		J32	
	9	6,9		J33	
		6,9		JV3	VITON

SEALING

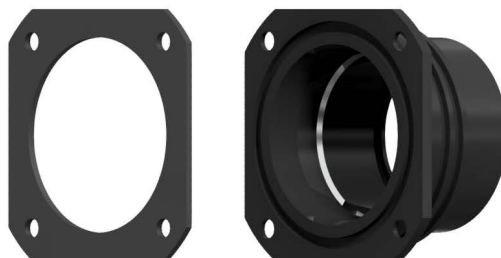
B-9

O'ring sealing (standard)



B-9

Square gasket sealing



B-9

Without gaskets



B-9

Boot gasket



CABLE OUTLET FOR RECEPTACLES (STRAIGHT OUTLET)

Receptacles can include a cable gland outlet. For coding, the designation of the desired cable gland (**see pages 24/28) is inserted immediately preceding the receptacle's sealing indicator.

B-9 2* A**

Receptacle and cable outlet included

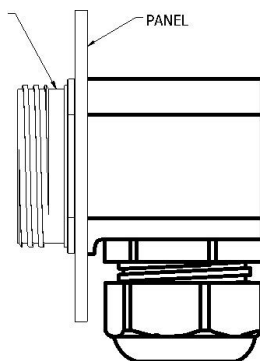


*2: Receptacle without coupling nut.
9: Receptacle with coupling nut.

CABLE OUTLET FOR RECEPTACLES (ANGLED OUTLET)

B-92CB8 40 A** 2
 Size (pg. 7,11) Cable outlet (pg. 24/28) Coating (pg. 31)

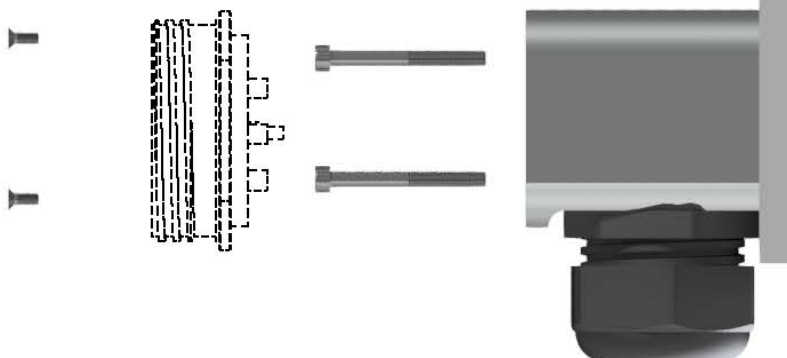
Receptacle and screws not included



Receptacle with angled cable outlet aerial or optional panel.

B-92CP8 40 A** 2
 Size (pg. 7,11) Cable outlet (pg. 24/28) Coating (pg. 31)

Panel angled outlet



Screws included
Receptacle not included

COATING

B-9 ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ 0

Nickel (standard) (conductive)



B-9 ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ 1

Stainless steel (on request) (conductive)



B-9 ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ 2

Black anodised (standard) (non-conductive)



B-9 ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ 3

Black painted (on request) (non-conductive)



B-9 ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ 4

Steel with Zinc-Nickel coating (on request) (conductive)



For finish (2) and (3), others colours are available on request.

ASSEMBLY TOOLS

Tool for fixing the connector body (male or female) to the assembly

SIZE	ASSEMBLY TOOLS FOR FIXING MAIN BODY
T10	B-EIN-MT-T1D
T20	B-EIN-MT-T2D
T30	B-EIN-MT-T3D
T40	B-EIN-MT-T4D



SIZE	FOR FIXING BACKSHELL DIN 1810A	FOR FIXING COUPLING NUT DIN 1810B
T10	B-EIN-CG-A20/35	B-EIN-CG-B20/35
T20	B-EIN-CG-A20/35	B-EIN-CG-B35/60
T30	B-EIN-CG-A35/60	B-EIN-CG-B35/60
T40	B-EIN-CG-A35/60	B-EIN-CG-B60/90



PIN INSERTION/EXTRACTION TOOLS

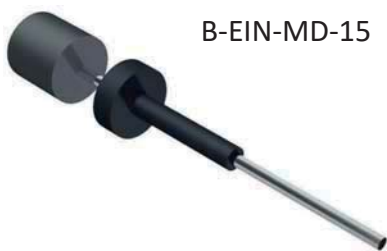
FOR PIN:			TOOL CODING	
			Inserción	Extracción
CONTACTS Ø1	B-MC-10-02/05	B-FC-10-02/05	B-EIN-MT-10	B-EIN-MD-10
	B-MC-10-07/10	B-FC-10-07/10		
	B-MC-10-02/07-A	B-FC-10-02/07-A		
	B-MC-10-05/10	B-FC-10-05/10		
CONTACTS Ø1.5	B-MC-15-07	B-FC-15-07	Manually	B-EIN-MD-15
	B-MC-15-15	B-FC-15-15		
	B-MC-15-25	B-FC-15-25		
CONTACTS Ø3	B-MC-30-15	B-FC-30-15	Manually	B-EIN-MD-30
	B-MC-30-25	B-FC-30-25		
	B-MC-30-40	B-FC-30-40		
CONTACTS Ø5.75	B-MC-57-100	B-FC-57-100	Manually	B-EIN-MD-57
	B-MC-57-160	B-FC-57-160		
HIGH INTENSITY CONTACTS	B-AIM5C84	B-AI5F5C84	Manually	B-EIN-MD-AI5
	B-AI5M10C336	B-AI5F10C336		B-EIN-MD-AI10
	B-AI5M16C850	B-AI5F16C850		B-EIN-MD-AI16



B-EIN-MD-10



B-EIN-MT-10



B-EIN-MD-15



B-EIN-MD-30



B-EIN-MD-57

HIGH VOLTAGE CONNECTOR

The T-30 connector size guarantee a working voltage of 25kV and a current of 50A.

INNER CONTACT	
Ø CONTACT	Ø4mm
NOMINAL CURRENT	50A
CONTACT RESISTENCE	< 5 mΩ
EXTERNAL CONTACT	
BODY	Earth contact*
ELECTRICAL SPECIFICATIONS (CONNECTED)	
WORKING VOLTAGE	≤ 25kV, 50Hz
BREAKING VOLTAGE	> 60kV, 50Hz
SECURITY COEFFICIENT	K=2

*See pg.31 for coating options.



B-920231AT00S00



B-920631AT00PLO

METAL CAPS

B-92T 02 10 P 2 0

COUPLING 02: To protect connectors w/o coupling nut
06: To protect connectors with coupling nut

CONNECTOR SIZE (IP68)
10: Connector T10
20: Connector T20
30: Connector T30
40: Connector T40
70: Connector T70

GENDER P: To protect male connectors
S: To protect female connectors

COATING
0: Nickel (on request)
1: Stainless steel (on request)
2: Black anodised (standard)
3: Black painted (on request)
4: Steel with zinc-nickel coating (on request)

p.31

PROTECTION 0: Standard
M: Protected thread (on request)



B-92T0220P20



B-92T0220S20



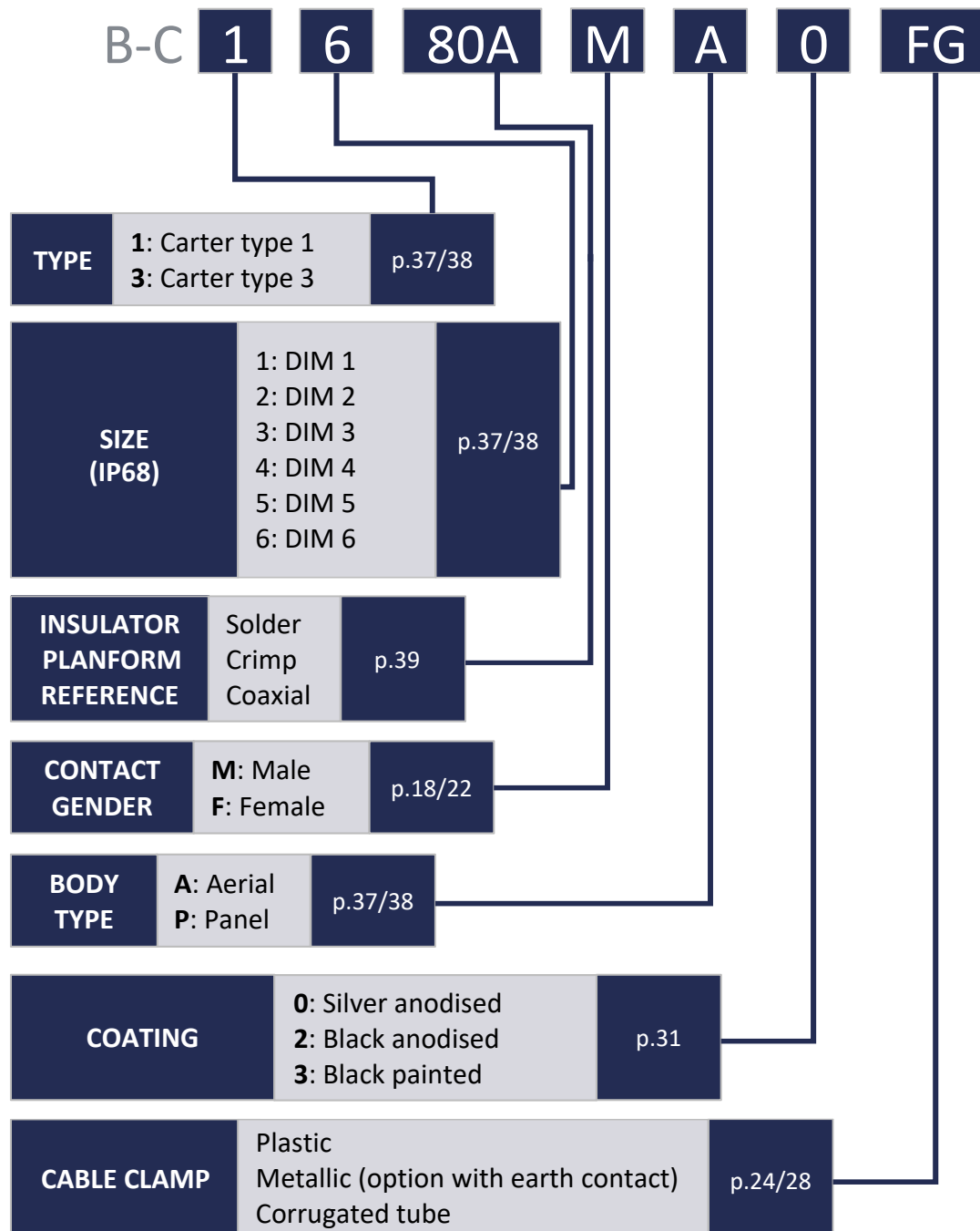
B-92T0620P20



B-92T0620S20

For finish (2) and (3) other colours are available (on request)

CARTER CONNECTOR REFERENCE



CARTER CONNECTOR TYPE

Carter T1 and T3 are the largest connectors manufactured by ALFA'R, highly robust and ready to work under very harsh environmental conditions.

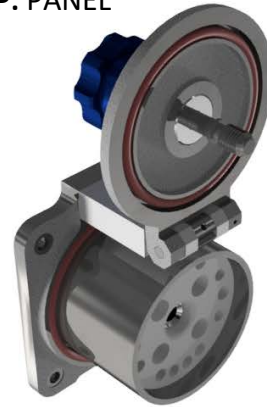
Carter T1

Carter T1 connectors has a threaded connection, waterproof and vibration safe. Aerial and receptacle include a waterproof sealing to protect them if they are not connected.

A: AERIAL



P: PANEL



PRO

Protection

Silver anodised (non conductive)
Black anodised / black painted (non conductive)

MAT

Material

Body: Aluminium alloy
Insulator: Thermoplastic
Sealing: EPDM/Silicone gaskets

IP

Protection

IP 68 IEC 529 / EN60529:1991

TEMP

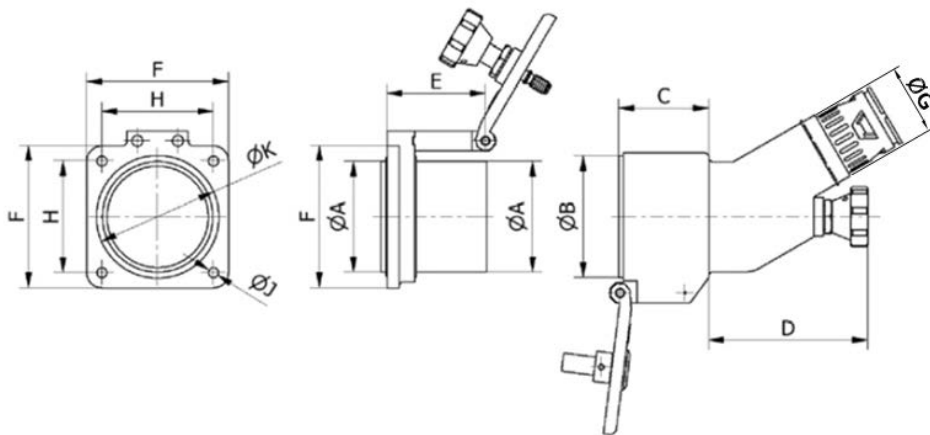
Temperature range

Static: from -40°C to +100°C
Dynamic: from -20°C to +100°C

SAR

Saline atmosphere resistance (ASTMB 117-73)

Silver anodised: 500h
Painted / Black anodised: 600h



CARTER T1 DIMENSIONS

Size	ØA	ØB	C	D	E	F	ØG	H	ØJ	ØK
1	54	60	29	115	40	70	19	55	5	56
2	64.5	71	35	125	47	80	28	65	5	67
3	81	88	44	150	58	100	36	80	6	83
4	109	120	67	195	87	140	48	110	8	111
5	130	140	80	230	105	160	54	128	8	132
6	151	164	95	240	120	180	66	144	10	155

CARTER CONNECTOR TYPE

The carter T3 connectors are highly robust and mechanically resistant.

They feature a lever-locking mechanism with a positioning that ensures a right and secure connection.

Thanks to they locking system, they provide a fast, reliable and waterproof connection, both when mated or when the included protective cap is closed (in receptacle) offering an IP68 rating.

A: AERIAL

P: PANEL



PRO

Protection

Silver anodised (non conductive)
Black anodised /Black painted (non conductive)

IP

Protection

IP 68 IEC 529 / EN60529:1991

MAT

Material

Body: Aluminium alloy
Insulator: Thermoplastic
Sealing: EPDM/Silicone gaskets

TEMP

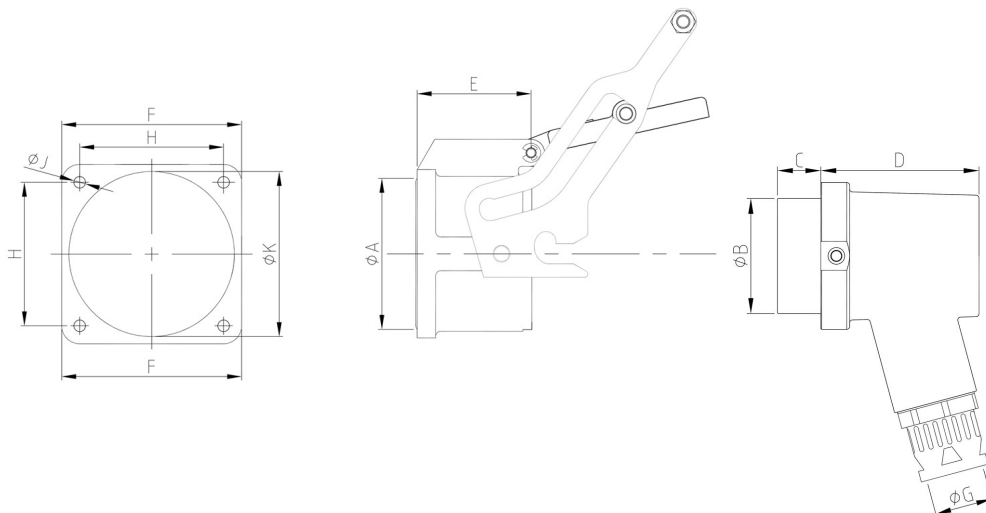
Temperature range

Static: from -40°C to +100°C
Dynamic: from -20°C to +100°C

SAR

Saline atmosphere resistance (ASTMB 117-73)

Silver anodised: 500h
Painted / Black anodised: 600h



CARTER T3 DIMENSIONS

ØA	ØB	C	D	E	F	ØG	H	ØJ	ØK
81	82	29	121	64,5	100	45	80	6	83

CARTER CONNECTOR TYPE

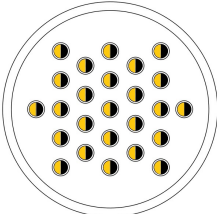
INSULATOR PLATFORMS

All planforms are customizable

Examples

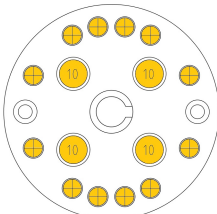
SIZE 3

BC33AFR00BL025AC



SIZE 4

BC14AFR00BL016A



SIZE 6

BC16AFR00BL080A

