



SERIES

Circular Power & signal connectors





CMC / CPP / CMB CONNECTOR SERIES

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MAIN CHARACTERISTICS CMC / CPP / CMB

- In accordance with standard NF F 61-030
- In accordance with the RoHS directive
- In accordance with fre & smoke requirements
- Screw Locking
- Removable contacts retained by spring clip
- Interchangeable inserts



CMC Series

- · Signal Connector
- · Housing: Aluminium
- Salt Spray: 96 hours or 500 hours
- Durability: 500 mating cycles



CPP Series

- Power Connector
- · Housing: Aluminium
- Salt Spray: 96 hours or 500 hours
- Durability: 500 mating cycles



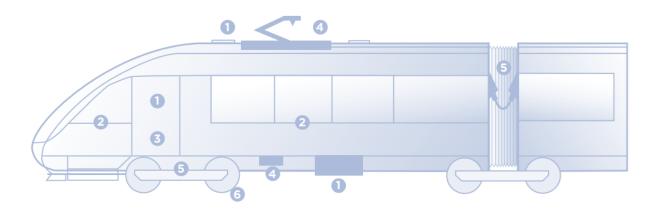
CMB Series

- Power or Signal Connector
- Housing: Bronze
- Salt Spray: > 500 hours
- Durability: > 500 mating cycles



Implementation Synoptic

CMC



Closed Electrical operating area	Requirements	Connectors types recommended
Index vehicle cubicle (weather pretected)	Salt Spray: 96H	CMC / CPP standard
Indoor vehicle cubicle (weather protected)	Bayonet Coupling	SRC*
Outdoor vehicle cubicle (weather protected)	Salt Spray: 96H	CMC / CPP standard
either under frame or upper-roof	Bayonet Coupling	SRC*

2	Ca	bin

Passenger vehicle compartment and driver cabin	Salt Spray: 96H	CMC / CPP standard
	Bayonet Coupling	SRC*

3 Closed electrical operating area; forced filtered ventilation with outside air

Machinery compartment specifications CMC
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Implementation Synoptic CMC

* Other TE Railway connectors from DEUTSCH



SRC series - Signal Connectors

Outdoor static applications	Requirements	Connectors types recommended
	Salt Spray: 96 / 500H	CMC / CPP with Black Varnish
Under car body, roof (non weather protected locations)	Bayonet Coupling	SRC*
(non-weather protected locations)	Harsh Environment	СМВ

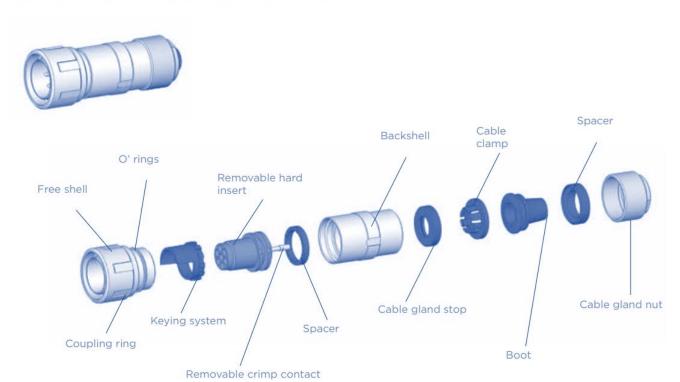
Salt Spray: 96 / 500H Coupling: < 500 Intercar Train Lines Salt Spray: > 500H Salt Spray: > 500H > 500 coupling CMC / CPP with Black Varnish CMB Salt Spray: > 500H > 500 coupling CMB Bogies

Outdoor highly dynamic applications			
Axles	Harsh Environment	СМВ	



Synoptic CMC/CPP/CMB

PLUG WITH ENVIRONMENTAL STRAIGHT BACKSHELL



SEMI-RECESSED RECEPTACLE WITH BACK NUT







Technical Characteriistics CMC/CPP

ELECTRICAL

Withstand Voltage: see pages 10 & 11

Creepage & Clearance distance : see pages 10 & 11

Insulation Resistance : > 5000 M Ω Termination : Crimp Contact

Max. Rating and contact resistance for maximum cross-section:

Caliber		Cable Cross-section	Contact Resistance
Ø 1.6 mm	15 A	1.5 mm ²	< 2.5 mΩ
Ø 2 mm	20 A	2.5 mm²	< 1.5 mΩ
Ø 3 mm	35 A	6 mm²	< 1.1 mΩ
Ø 5 mm	50 A	16 mm²	< 0.6 mΩ
Ø 6 mm	80 A	25 mm ²	< 0.5 mΩ
Ø 7 mm	150 A	50 mm ²	< 0.5 mΩ
Ø 7.9 mm	210 A	70 mm²	< 0.35 mΩ
Ø 12 mm	260 A	95 mm²	< 0.2 mΩ
Ø 16 mm	450 A	150 mm²	< 0.15 mΩ

MATERIALS

Shell: Aluminium Alloy

Shell Finish:

Chemical Conversion : 96 H salt spray
Black Varnish - 500 H salt spray
Crimp Contacts : Silver or gold plated brass

Insulators: Thermoplastic Requirement 2 according to NF F 16-101 & 102 / EN 45545-2

Insert CTI: 400 V < CTI < 600 V according to CEI 60112

CHARACTERISTICS

Service Temperature : -40°C +100°C

Salt Spray: 96 or 500 hours depending on the Finish Protection Index: IP66 according to EN60529

MECHANICAL

Mating Cycles: 500

Vibrations : 7.9 g (EN 61373:2000) Shocks : 30 g - 30ms (EN 61373:2000)

Keyings:

12 positions for sizes 02, 04, 07, 19, 27

14 positions for size 61



Synoptic

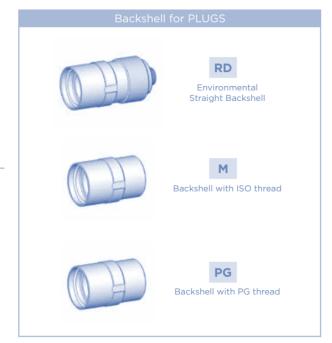
CMC



The panel sealing gasket is supplied with the receptacle









(to be ordered separately) (pages 12-13)

Part Numbering system

CMC

CMC 36 PG 07 - 05 P N G A91

32 Square Receptacle **36** Plug **33** Square Receptacle (shielding) **38** Plug (shielding) BACKSHELL TYPES **EA** Backnut M Backshell with ISO Thread PG Backshell with PG Thread **RD** Environmental straight Backshell 02 - 04 - 07 - 19 - 27 - 61 See pages 10-11 Defined by the number of cavities in the insert **CONTACT TYPES** P Male **S** Female See the instruction Notice N° FT08010 Sizes 02 - 04 - 07 - 19 - 27 : N, 1, 2, 3, 4, 5, 6, 7, 8, 9, X, Y Size 61: N, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D See pages 22-23 See accepted cable characteristics No digit 96 H Salt Spray: standard contacts included 090 96 H Salt Spray: without contact (to be ordered separately) (pages 12-13) 500 H Salt Spray / Black Varnish : standard contacts included A01 500 H Salt Spray / Black Varnish: without contacts A91

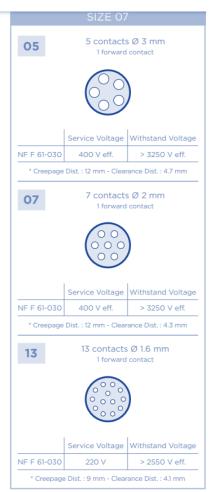


Configurations

CMC







MAX. DIAMETER OF CONDUCTORS IN THE REAR INSERT

Config	sert guration gement	Ø max. in cavity
02	04	4 x 3.9 mm
04	04	4 x 5.5 mm
04	07	7 x 3.93 mm
07	05	5 x 6.4 mm
07	07	7 x 5.5 mm
07	13	13 x 3.93 mm
19	09	9 x 4.2 mm
19	12	12 x 6.4 mm
19	13	13 x 5.5 mm
19	19	19 x 5.5 mm
19	28	28 x 3.93 mm
27	02	2 x 16.3 mm
27	06	2 x 16.3 mm + 4 x 8.6 mm
27	08	2 x 14.4 mm + 4 x 13.5 mm+ 2 x 5 mm
27	19	19 x 6.4 mm
27	27	27 x 5.8 mm
27	49	49 x 3.91 mm
61	06	4 x 21.7 mm + 2 x 7.4 mm
61	37	37 x 7.5 mm
61	41	6 x 6.1 mm + 33 x 6 mm + 1 x 16 mm
61	45	2 x 20 mm + 43 x 5.8 mm
61	61	61 x 5.5 mm

 $^{\circ}$ Creepage Distance / Clearance Distance (unmated connector) For the cavities numbering, ask for the data sheet N $^{\circ}$ FT 08009

41*

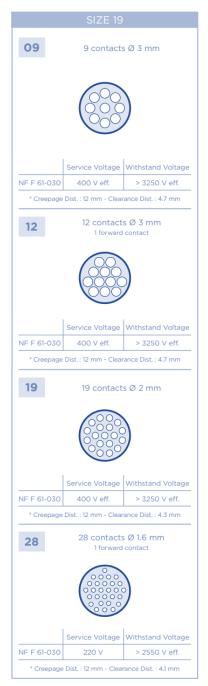
45*

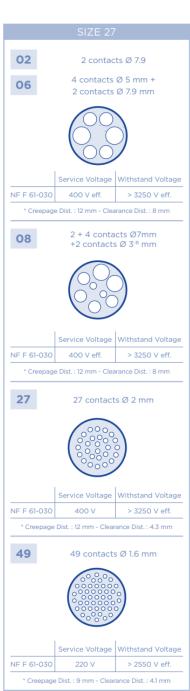
*Contacts have to be ordered separately. Use code 090 in the part number to indicate this. See pages 12-13.

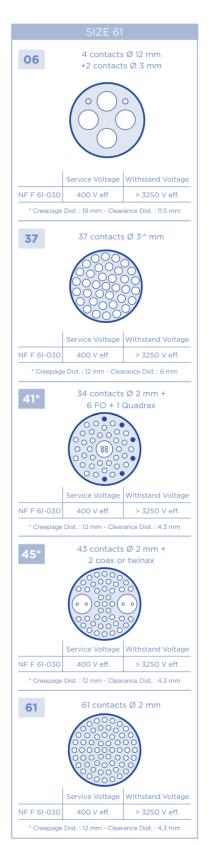


Configurations

CMC









Male Crimp contacts CMC



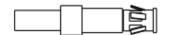
Caliber (mm)		Part Number	Cable section	Obturator	Crimping Tool	Locator	Insertion Tool	Extracting Tool
	Ag	DMCS24150-000B3	0.5 to 1.82 mm ²	SRC202730-A00	FT8	TP1012	OUT31748-000A2	OUTEXT0321
Ø1.6	Au	DLNS24150-0003	(AWG 20 to 15) 0.5 to 1.82 mm ² (AWG 20 to 15)	SRC202730-A00	FT8	TP1012	OUT31748-000A2	OUTEXT0321
	Ag	DMCS1545-0008-B	0.22 to 0.93 mm ² (AWG 24 to 18)	STD0391-0104A3	FT8	TP900-1	OUTS1545-0002	OUTEXT-0370
	Au	DMCS1545-0008-D	0.22 to 0.93 mm ² (AWG 24 to 18)	STD0391-0104A3	FT8	TP900-1	OUTS1545-0002	OUTEXT-0370
	Ag	DMCS1545-0007B	0.5 to 1.82 mm ² (AWG 20 to 15)	STD 0391-0104A3	FT8	TP900-1	OUTS1545-0002	OUTEXT-0370
Ø2	Au	DMCS1545-0007-D	0.5 to 1.82 mm ² (AWG 20 to 15)	STD0391-0104A3	FT8	TP900-1	OUTS1545-0002	OUTEXT-0370
	Ag	DMCS1545-0006-B	1.34 to 2.61 mm ² (AWG 15 to 13)	STD 0391-0104A3	FT8	TP900-1	OUTS1545-0002	OUTEXT-0370
	Au	DMCS1545-0006-D	1.34 to 2.61 mm ² (AWG 15 to 13)	STD0391-0104A3	FT8	TP900-1	OUTS1545-0002	OUTEXT-0370
	Ag	DMCS24578-0003-B	1.34 to 2.61 mm ² (AWG 15 to 13)	DLNS19575-0004	M317	OUTS24823-0003	OUT18990-0004	OUTEXT-0420
	Au	DMCS24578-0003-D	1.34 to 2.61 mm ² (AWG 15 to 13)	DLNS19575-0004	M317	OUTS24823-0003	OUT18990-0004	OUTEXT-0420
Ø3	Ag	DMCS19554-0004	2.5 to 4 mm ² (AWG 13 to 11)	DLNS19575-0004	M317	OUTS24823-0003	OUT18990-0004	OUTEXT-0420
	Au	DMCS25036-00A3	2.5 to 4 mm ² (AWG 13 to 11)	DLNS19575-0004	M317	OUTS24823-0003	OUT18990-0004	OUTEXT-0420
	Ag	DMCS24750-0003-B	4 to 6 mm² (AWG 11 to 9)	DLNS19575-0004	M317	OUTS24823-0003	OUT18990-0004	OUTEXT-0420
Ø3-A	Ag	DAMS0692-0130	1.34 to 2.61 mm ² (AWG 15 to 13)	-	M317	TP1065	OUT18990-0004	OUTS1166-0023-0
Ø3 ^{-B}	Ag	DLNS18970-0004	2.07 to 4 mm ² (AWG 14 to 11)	-	MS 3191-1	-	OUT18990-0004	OUTEXT-0420
	Ag	DLNS1673-205968	4 mm ² (AWG 11)	-	M317	OUTS24823-0003	-	OUTCCIEXT-D0200
Ø5	Ag	DLNS24149-00A3	6 mm² (AWG 9)	-	See T2 page 29		-	OUTCCIEXT-D0200
95	Ag	DMCS206659-A00	10 mm ² (AWG 7)	-	See T2 page 29		-	OUTCCIEXT-D0200
	Ag	DMCS1848-205681	16 mm ² (AWG 5)	-	See	T2 page 29	-	OUTCCIEXT-D0200
	Ag	DMCS208558-A00	16 mm ² (AWG 5)	DLNS18968-000M	See	T2 page 29	-	OUTCCIEXT-G0100
0.7	Ag	DLNS203014	25 mm ² (AWG 3)	DLNS18968-000M	See	T2 page 29	-	OUTCCIEXT-G0100
Ø7	Ag	DMCS206829-A00	35 mm ² (AWG 2)	DLNS18968-000M	See	T2 page 29	-	OUTCCIEXT-G0100
	Ag	DLNS18972-0004	50 mm ² (AWG 0)	DLNS18968-000M	See	T2 page 29	-	OUTCCIEXT-G0100
	Ag	DMCS204073-A00	35 mm ² (AWG 2)	-	See	T2 page 29	-	OUTCCIEXT-H0100
Ø7.9	Ag	DMCS24817-0003	50 mm ² (AWG 0)	-	See	T2 page 29	-	OUTCCIEXT-H0100
	Ag	DLNS24163-0003	70 mm² (AWG 00)	-	See	T2 page 29	-	OUTCCIEXT-H0100
	Ag	DMCS1733-201620	35 mm² (AWG 2)	DMC19947-0004	See	T2 page 29	-	-
C 10	Ag	DMCS25463-0003	50 mm ² (AWG 0)	DMC19947-0004	See	T2 page 29	-	-
Ø 12	Ag	DMCS25461-0003	70 mm² (AWG 00)	DMC19947-0004	See	T2 page 29	-	-
	Ag	DMCS25564-0003	95 mm² (AWG 000)	DMC19947-0004	See T2 page 29		-	-

Standard contacts supplied with connector

Ag: Silver plated - Au: Gold plated



Female Crimp contacts CMC



Caliber (mm)		Part Number	Cable section	Obturator	Crimping Tool	Locator	Insertion Tool	Extracting Tool
	Ag	DMCS24151-000B3	0.5 to 1.82 mm ² (AWG 20 to 15)	SRC202730-A00	FT8	TP1012	OUT31748-000A2	OUTEXT 0321
Ø1.6	Au	DLNS24151-0003	0.5 to 1.82 mm ² (AWG 20 to 15)	SRC202730-A00	FT8	TP1012	OUT31748-000A2	OUTEXT 0321
	Ag	DMCS1545-0009-B	0.22 to 0.93 mm ² (AWG 24 to 18)	STD0391-0104A3	FT8	TP900-1	OUTS1545-0002	OUTEXT-0370
	Au	DMCS1545-0009-D	0.22 to 0.93 mm ² (AWG 24 to 18)	STD0391-0104A3	FT8	TP900-1	OUTS1545-0002	OUTEXT-0370
Ø2	Ag	DMCS1545-0005-B	0.5 to 1.82 mm ² (AWG 20 to 15)	STD 0391-0104A3	FT8	TP900-1	OUTS1545-0002	OUTEXT-0370
02	Au	DMCS1545-0005-D	0.5 to 1.82 mm ² (AWG 20 to 15)	STD0391-0104A3	FT8	TP900-1	OUTS1545-0002	OUTEXT-0370
	Ag	DMCS1545-0004-B	1.34 to 2.61 mm ² (AWG 15 to 13)	STD 0391-0104A3	FT8	TP900-1	OUTS1545-0002	OUTEXT-0370
	Au	DMCS1545-0004-D	1.34 to 2.61 mm ² (AWG 15 to 13)	STD0391-0104A3	FT8	TP900-1	OUTS1545-0002	OUTEXT-0370
	Ag	DMCS24577-0003-B	1.34 to 2.61 mm ² (AWG 15 to 13)	DLNS19575-0004	M317	OUTS24823-0003	OUT18990-0004	OUTEXT-0420
	Au	DMCS24577-0003-D	1.34 to 2.61 mm ² (AWG 15 to 13)	DLNS19575-0004	M317	OUTS24823-0003	OUT18990-0004	OUTEXT-0420
Ø3	Ag	DMCS19555-0004	2.5 to 4 mm ² (AWG 13 to 11)	DLNS19575-0004	M317	OUTS24823-0003	OUT18990-0004	OUTEXT-0420
	Au	DMCS25037-00A3	2.5 to 4 mm ² (AWG 13 to 11)	DLNS19575-0004	M317	OUTS24823-0003	OUT18990-0004	OUTEXT-0420
	Ag	DMC S24747-0003	4 to 6 mm² (AWG 11 to 9)	DLNS19575-0004	M317	OUTS24823-0003	OUT18990-0004	OUTEXT-0420
Ø3 ^{-A}	Ag	DMCS1239-0007	1.34 to 2.61 mm ² (AWG 15 to 13)	-	M317	TP1065	OUT18990-0004	OUTEXT0550
Ø3-B	Ag	DLNS18971-0004	2.07 to 4 mm ² (AWG 14 to 11)	-	MS 3191-1	-	OUT18990-0004	OUTEXT-0420
	Ag	DMCS206657-A00	4 to 6 mm² (AWG 11 to 9)	-	M317	OUTS24823-0003	-	OUTCCIEXT-D0200
Ø5	Ag	DMCS24146-00A3	6 mm² (AWG 9)	-	See	T2 page 29	-	OUTCCIEXT-D0200
	Ag	DMCS206823-A00	10 mm ² (AWG 7)	-	See T2 page 29		-	OUTCCIEXT-D0200
	Ag	DMCS1848-205686	16 mm² (AWG 5)	-	See	T2 page 29	-	OUTCCIEXT-D0200
	Ag	DMCS208559-A00	16 mm² (AWG 5)	DLNS18968-000F	See	T2 page 29	-	OUTCCIEXT-G0100
Ø7	Ag	DLNS25706-0003	25 mm ² (AWG 3)	DLNS18968-000F	See	T2 page 29	-	OUTCCIEXT-G0100
2,	Ag	DLNS18976-0004	35 mm ² (AWG 2)	DLNS18968-000F	See	T2 page 29	-	OUTCCIEXT-G0100
	Ag	DLNS18973-0004	50 mm² (AWG 0)	DLNS18968-000F	See	T2 page 29	-	OUTCCIEXT-G0100
	Ag	DMCS206825-A00	35 mm ² (AWG 2)	-	See	T2 page 29	-	OUTCCIEXT-H0100
Ø7.9	Ag	DMCS24164-0003	50 mm² (AWG 0)	-	See	T2 page 29	-	OUTCCIEXT-H0100
	Ag	DMCS206827-A00	70 mm² (AWG 00)	-	See	T2 page 29	-	OUTCCIEXT-H0100
	Ag	DMCS201872-A00	35 mm ² (AWG 2)	DMC19948-0004	See	T2 page 29	-	-
Ø 12	Ag	DMCS25464-0003	50 mm ² (AWG 0)	DMC19948-0004	See	T2 page 29	-	-
2 12	Ag	DMCS25462-0003	70 mm² (AWG 00)	DMC19948-0004	See	T2 page 29	-	-
	Ag	DMCS25565-0003	95 mm² (AWG 000)	DMC19948-0004	See	T2 page 29	-	-

Standard contacts supplied with connector

Ag : Silver plated - Au : Gold plated

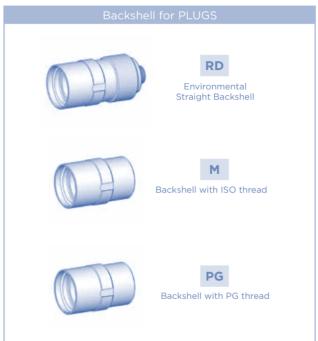


Synotic CPP











Part Numbering system CPP

A91

500 H Salt Spray / Black Varnish : without contacts

(to be ordered separately)

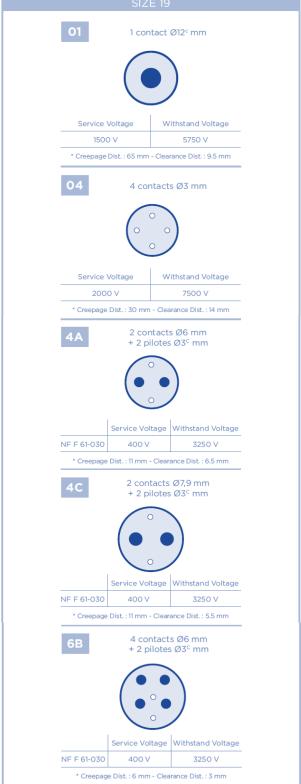
CPP 36 PG 19 - 4A S N K 090

32 Square Receptacle **36** Plug **33** Square Receptacle (shielding) except size 02 & 61 **38** Plug (shielding) **BACKSHELL TYPES EA** Backnut M Backshell with ISO Thread PG Backshell with PG Thread NF C 68-315 et DIN 40430 **RD** Environmental straight Backshell 07 - 19 - 27 - 61 See pages 16-17 **CONTACT TYPES** P Male **S** Female See the instruction Notice N° FT08010 Sizes 07 - 19 - 27: N, 1, 2, 3, 4, 5, 6, 7, 8, 9, X, Y Size 61: N, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D **CABLE INDEXES** See pages 22-23 See accepted cable characteristics See pages 18-19 090 96 H Salt Spray: without contact (to be ordered separately)



ConfigurationsCPP



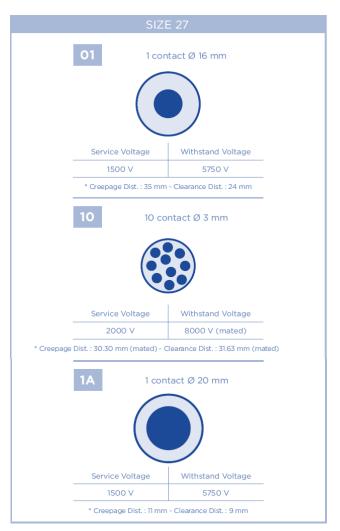


Contacts have to be ordered separately. Use code 090 in the part number to indicate this. See pages 18-19.

*Creepage Distance / Clearance Distance (unmated connector)
For the cavities numbering, ask for the data sheet N° FT 08009



ConfigurationsCPP





MAX. DIAMETER OF CONDUCTORS IN THE REAR INSERT

Con	Insert figuration angement	Ø max. in cavity
07	01	1 x 8 mm
19	O1	1 x 24 mm
19	04	4 x 7.7 mm
19	4A	2 x 10.5 mm + 2 x 5 mm
19	4C	2 x 16.3 mm + 2 x 4.5 mm
19	6B	4 x 105 mm + 2 x 5 mm
27	01	1 x 36 mm
61	09	3 x 22 mm + 6 x 10 mm



CMC / CPP / CMB CONNECTOR SERIES

Male Crimp contacts CPP

Caliber (mm)		Part Number	Cable section	Obturator	Crimping Tool	Positionner	Extracting Tool
	Ag	DMCS24577-0003	1.34 to 2.61 mm ² (AWG 15 to 13)	DLNS19575-0004	M317	OUTS24823-0003	OUTEXT-0420
Ø3	Ag	DMCS19555-0004	2.5 to 4 mm ² (AWG 13 to 11)	DLNS19575-0004	M317	OUTS24823-0003	OUTEXT-0420
	Ag	DMCS24747-0003	4 to 6 mm ² (AWG 11 to 9)	DLNS19575-0004	M317	OUTS24823-0003	OUTEXT-0420
	Ag	DPPS206346-A00	0.5 to 1.82 mm ² (AWG 20 to 15)	DPP202176-A00	FT8	TP1012	OUTEXT-0420
07.5	Au	DPPS206346-A01	0.5 to 1.82 mm ² (AWG 20 to 15)	DPP202176-A00	FT8	TP1012	OUTEXT-0420
Ø3 ^c	Ag	DPPS206347-A00	1.34 to 2.61 mm ² (AWG 15 to 13)	DPP202176-A00	M317	OUTS24823-0003	OUTEXT-0420
	Au	DPPS206347-A01	1.34 to 2.61 mm ² (AWG 15 to 13)	DPP202176-A00	M317	OUTS24823-0003	OUTEXT-0420
	Ag	DMCS1848-205688	6 mm² (AWG 9)	-	See T2	page 29	OUTCCIEXT-D0200
Ø5 ^B	Ag	DMCS206823-A00	10 mm ² (AWG 7)	-	See T2	page 29	OUTCCIEXT-D0200
	Ag	DMCS1848-205686	16 mm ² (AWG 5)	-	See T2	page 29	OUTCCIEXT-D0200
Ø5 ^c	Ag	DPPS205698	10 mm ² (AWG 7)	-	D31	02379	OUTCCIEXT-D0200
	Ag	DPPS202230-A00	4 mm ² (AWG 11)	DPPS205439-A00	See T2 page 29		OUTCCIEXT-F0100
	Ag	DPPS202147-A00	6 mm² (AWG 9)	DPPS205439-A00	See T2 page 29		OUTCCIEXT-F0100
Ø6	Ag	DPPS201800-000	10 mm ² (AWG 7)	DPPS205439-A00	See T2 page 29		OUTCCIEXT-F0100
	Ag	DPPS19628-A004	16 mm ² (AWG 5)	DPPS205439-A00	See T2 page 29		OUTCCIEXT-F0100
	Ag	DPPS1731-206665	25 mm ² (AWG 3)	DPPS205439-A00	See T2	page 29	OUTCCIEXT-F0100
Ø7.9	Ag	DMCS206827-A00	70 mm² (AWG 00)	-	See T2	page 29	OUTCCIEXT-H0100
	Ag	DMCS206477	35 mm ² (AWG 2)	-	See T2	page 29	-
	Ag	DPPS203904-A00	50 mm ² (AWG 0)	-	See T2	page 29	-
Ø12 ^B	Ag	DPPS206926-A00	70 mm ² (AWG 00)	-	See T2	page 29	-
W12-	Ag	DPPS204344-A00	95 mm² (AWG 000)	-	See T2	page 29	-
	Ag	DMCS1848-205685	120 mm ² (MCM 250)	-	See T2	page 29	-
	Ag	DMCS1848-205684	150 mm² (MCM 300)	-	See T2	page 29	-
	Ag	DPPS208461-A00	50 mm ² (AWG 0)	-	See T2	page 29	-
Ø12 ^c	Ag	DPPS208463-A00	95 mm² (AWG 000)	-	See T2	page 29	-
	Ag	DPPS204342-A00	120 mm ² (MCM 250)	-	See T2	page 29	-
	Ag	DPPS201619-A00	120 mm ² (MCM 250)	-	See T2	page 29	-
Ø16	Ag	DPPS204111-A00	150 mm ² (MCM 300)	-	See T2	page 29	-
	Ag	DPPS208527-A00	185 mm ² (MCM 350)	-	See T2	page 29	-



Charactéristics and Synoptic CMB

MATERIALS

Shell: Bronze

Crimp Contacts: Silver or gold plated brass

Insulators: Polyamide

CHARACTERISTICS

Service Temperature : -40°C +120°C

Salt Spray : > 500H

Protection Index: IP67 with environmental straight backshell

MECHANICAL

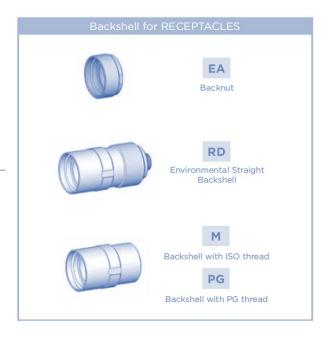
Mating Cycles: > 500

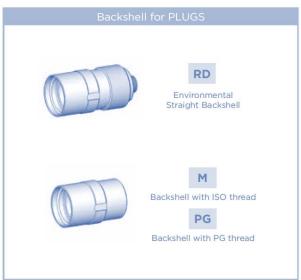
Fire & Smoke withstand: NF F 16-102 requirement 2













Part Numbering System CMB

CMB 36 PG 19 - 28 P N K 090

32 Square Receptacle **36** Plug **33** Square receptacle (shielding) except size 02 & 61 **38** Plug (shielding) **BACKSHELL TYPES EA** Backnut M Backshell with ISO thread PG Backshell with PG thread **RD** Environmental Straight backshell 02 - 04 - 07 - 19 - 27 - 61 See pages 10-11 (CMC) & pages 16-17 (CPP) Defined by the number of cavities in the insert **CONTACT TYPES** P Male S Female See the instruction Notice FT N° 08010 Sizes 02 - 04 - 07 - 19 - 27 : N, 1, 2, 3, 4, 5, 6, 7, 8, 9, X, Y Size 61: N, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D **CABLE INDEXES** See pages 22-23 See accepted cable characteristics 090 Without contacts (to be ordered separately) See pages 12-13 (CMC) & pages 18-19 (CPP)

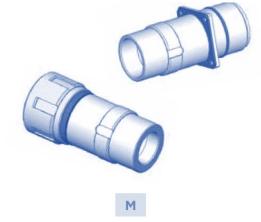


Backshells: Cable Indexes

CMC/CPP/CMB

BACKSHELLS WITH ISO THREAD

		Shell Size						
	02	04	07	19	27	61		
M12 x 1.5	С							
M16 x 1.5	D	D						
M20 x 1.5	Е	Е						
M25 x 1.5		G	G					
M32 x 1.5			Н	Н				
M40 x 1.5				K	K			
M50 x 1.5				L	L	L		
M63 x 1.5					М	М		



Receptacle & Plug with Backshell for Metric Outlet

BACKSHELLS WITH PG THREAD (NF C 68-312 / DIN 40430)

P.C	Shell Sizes							
PG	02	04	07	19	27	61		
9	D	D						
11	Е	Е						
13	F							
16		G	G					
21			Н		Н			
29				K	K			
36				L	L			
42					М			
48 DIN					N	N		
48 NFC					Р	Р		



Receptacle & Plug with Backshell for PG Outlet



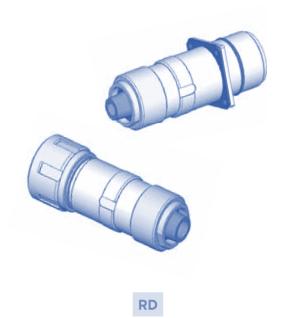
Backshells: Cable Indexes

CMC/CPP/CMB

ENVIRONMENTAL STRAIGHT BACKSHELLS

INSULAT	CABLE INSULATION O.D. Ø ext.		Shell Sizes					
Min.	Max.	02	04	07	19	27	61	
5.5 (0.216)	8 (0.315)		D	D				
7.5 (0.295)	10 (0.394)	Е	Е	Е				
9.5 (0.374)	11.5 (0.453)			F				
12 (0.472)	14 (0.551)		Н	Н				
13.5 (0.531)	17 (0.669)			L	L			
16 (0.630)	21 (0.827)			М				
16.5 (0.649)	20 (0.787)				N			
19.5 (0.768)	23.5 (0.925)				Р	Р		
22 (0.866)	28 (0.102)				Q	Q		
31 (1.220)	33 (1.299)				Т	Т		
32 (1.259)	36 (1.417)					W	W	
36 (1.417)	40 (1.574)					X	Х	
42 (1.653)	46 (1.811)						Z	
44 (1.732)	48 (1.890)						Υ	



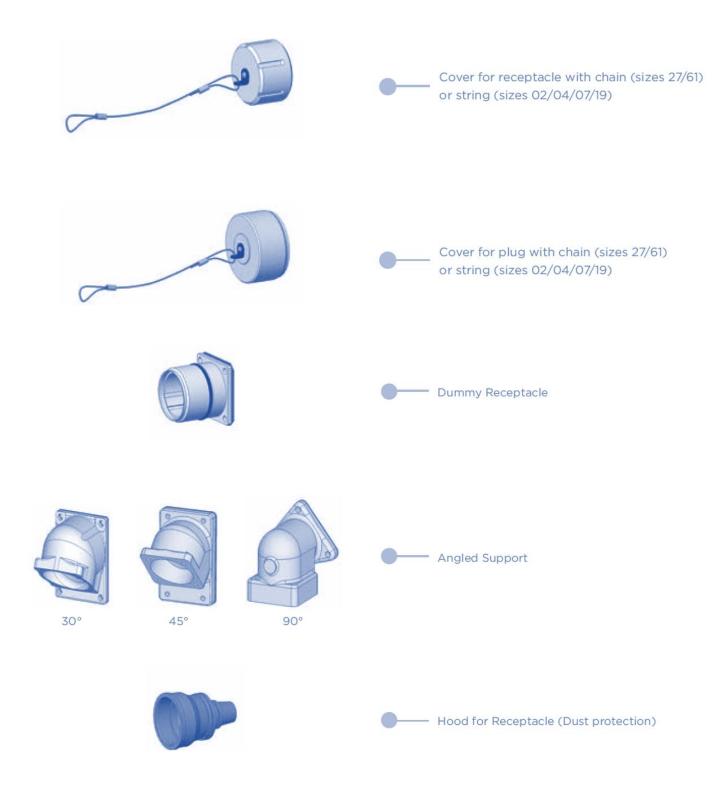


Plug and Receptacle with environmental straight backshell



CMC / CPP / CMB CONNECTOR SERIES

Accessories CMC/CPP





CMC / CPP / CMB CONNECTOR SERIES

Accessories CMC/CPP

No standard accessories for the CMB series

96 HOURS SALT SPRAY

Aggoggariag	Shell Sizes								
Accessories	02	04	07		27				
Cover for receptacle (Aluminium)	CMCBE02	CMCBE04	CMCBE07	CMCBE19	CMCBE27	DMCS1590-1000-0			
Cover for receptacle (Polyamide)	CMCBE02-150	CMCBE04-254	CMCBE07-256	CMCBE19-112	CMCBE27-019	DMC1590-4000-0			
Cover for plug (Aluminium)	CMCBF02	CMCBF04	CMCBF07	CMCBF19	CMCBF27	DMCS1590-2000-0			
Cover for plug (Polyamide)	CMCBF02-219	CMCBF04-255	CMCBF07-257	CMCBF19-113	CMCBF27-020	DMCS1590-3000-0			
Dummy Socket	CMCBR02	CMCBR04	CMCBR07	CMCBR19	CMCBR27	CMCBR61			
30° angled support				CMCPT30-19		CMCPT30-61			
45° angled support		CMCPT45-04				CMCPT45-61			
90° angled support			CMCPT90-07	CMCPT90-19	CMCPT90-27	CMC PT90-61			
Hood (santoprene)		CMCT04	CMCT07	CMCT19	CMCT27	CMCT61			

500 HOURS SALT SPRAY

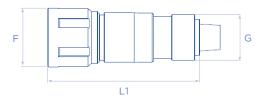
Accessing	Shell Sizes								
Accessories	02	04	07		27				
Cover for receptacle (Aluminium)	CMCBE02A01	CMCBE04A01	CMCBE07A01	CMCBE19A01	CMCBE27A01	CMCBE61A01			
Cover for receptacle (Polyamide)	CMCBE02-150	CMCBE04-254	CMCBE07-256	CMCBE19-112	CMCBE27-019	DMC1590-4000-0			
Cover for plug (Aluminium)	CMCBF02A01	CMCBF04A01	CMCBF07A01	CMCBF19A01	CMCBF27A01	CMCBF61A01			
Cover for plug (Polyamide)	CMCBF02-219	CMCBF04-255	CMCBF07-257	CMCBF19-113	CMCBF27-020	DMCS1590-3000-0			
Dummy Socket	CMCBR02A01	CMCBR04A01	CMCBR07A01	CMCBR19A01	CMCBR27A01	CMCBR61A01			
30° angled support				CMCPT30-19A01		CMCPT30-61A01			
45° angled support		CMCPT45-04A01				CMCPT45-61A01			
90° angled support			CMCPT90-07A01	CMCPT90-19A01	CMCPT90-27A01	CMCPT90-61A01			
Hood (santoprene)		CMCT04	СМСТ07	CMCT19	CMCT27	CMCT61			



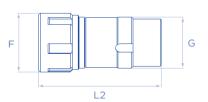
Dimensions CMC/CPP/CMB

PLUG

With environmental straight backshell RD

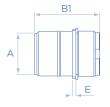


With backshell for PG & ISO outlet PG / M



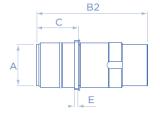
SQUARE FLANGE RECEPTACLE

With environmental straight backshell EA





With backshell for PG & ISO outlet PG / M





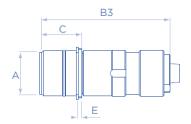
Size	02	04	07	19	27	61
F	28 (1.10)	36 (1.42)	45 (1.77)	63 (2.48)	81 (3.19)	106 (4.17)
G	28 (1.10)	32 (1.26)	39 (1.53)	56 (2.20)	74 (2.91)	80 (3.15)
L1	116 (4.57)	106 (4.17)	118 (4.64)	118 (4.64)	151 (5.94)	331 (13.03)
L2	69 (2.78)	78 (3.07)	95 (3.74)	95 (3.74)	107 (4.21)	173 (6.81)

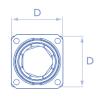
mm / (inches)

Size	02	04	07			
А	24 (0.94)	32 (1.26)	37,9 (1.49)	56 (2.20)	74 (2.91)	96 (3.78)
B1 (EA)	44 (1.73)	46 (1.81)	48.7 (1.92)	48.7 (1.92)	56.4 (2.22)	85 (3.34)
B2 (PG)	72 (2.83)	78 (3.07)	95 (3.74)	101 (3.98)	102,5 (4.03)	180 (7.09)
B3 (RD)	118	106	120	123	152	265
	(4.64)	(4.17)	(4.72)	(4.84)	(5.98)	(10.43)
С	(4.64) 31 (1.22)	(4.17) 35 (1.38)	(4.72) 36 (1.42)	(4.84) 36 (1.42)	(5.98) 36 (1.42)	(10.43) 56 (2.20)
C	31	35	36	36	36	56

mm / (inches)

With environmental straight backshell RD



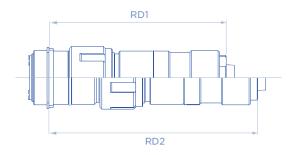




Dimensions CMC/CPP/CMB

MATED CONNECTORS

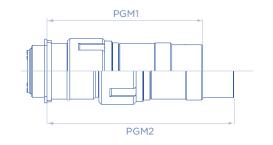
With Environmental Straight Backshell RD



	02	04	07			
RD1 Mated	126 (4.96)	117 (4.60)	133 (5.24)	133 (5.24)	165 (6.50)	354 (13.94)
RD2 Unmated	147 (5.79)	139 (5.47)	154 (6.06)	154 (6.06)	189 (7.44)	387 (15.24)

mm max. / (inches)

With Backshell for PG & ISO Outlet PG - M



Size	02	04	07			
PGM1 Mated	78 (3.07)	89 (3.50)	108,5 (4.27)	108,5 (4.27)	123 (4.84)	193 (7.06)
PGM2 Unmated	100 (3.94)	111 (4.37)	131 (5.16)	131 (5.16)	145 (5.70)	229 (9.02)

mm max. / (inches)

COUPLING TORQUE

Size	Backnut	Coupling Barrel	Backshell
02	10 Nm	10 Nm	10 Nm
04	10 Nm	15 Nm	10 Nm
07	15 Nm	25 Nm	20 Nm
19	25 Nm	40 Nm	25 Nm
27	45 Nm	68 Nm	45 Nm
61	50 Nm	90 Nm	50 Nm

Note: Indicate values (CMC)

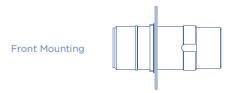






Panel Cut Out & Weights CMC/CPP/CMB

RECEPTACLE & DUMMY SOCKET

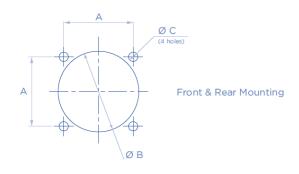




Size	02	04	07*	19*	27	61
А	27 (1.06)	27 (1.06)	34 * (1.34)	52 * (2.04)	64 (2.52)	88 (3.46)
В	29 (0.14)	32 (1.26)	40 * (1.57)	57 * (2.24)	75 (2.95)	96 (3.78)
С	3.5 (0.14)	3.5 (0.14)	4.5 * (0.18)	4.5 * (0.18)	7 (0.27)	9.5 (0.37)

^{*} Back mounting possible

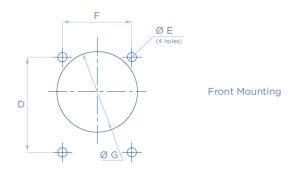
mm / (inches)



ANGLED SUPPORT

Size	02	04	07	19	19	61	61
							90°
D	-	55 (2.16)	38.5 (1.52)	70 (2.75)	88 (3.46)	138 (5.43)	113 (3.46)
Е	-	3.5 (0.14)	4.4 (0.17)	4.5 (0.18)	10 (0.39)	9.5 (3.74)	9 (3.78)
F	-	27 (1.06)	50 (1.97)	54 (2.12)	62.5 (2.46)	98 (3.86)	98 (3.86)
G	-	30.5 (1.20)	28.5 (1.12)	56.5 (2.22)	59 (2.32)	92 (3.62)	92 (3.62)

mm / (inches)



APPROXIMATE WEIGHTS without contact - Version CMC: Alu

Description	02	04	07	19	27	61		
Square Receptacle with backnut		32EA	35	70	85	190	355	810
Square Receptacle with ISO or PG thread backshell		32M & 32PG	70	90	110	285	520	1775
Square Receptacle with environmental straight backshell		32RD	80	135	135	240	415	1805
Plug with ISO or PG thread backshell	10	36M & 36PG	110	80	140	295	575	2000
Plug with environmental straight backshell	G H	36RD	120	150	205	250	470	2030



Crimping tools CMC/CPP/CMB

MECHANICAL MANUAL PLIERS

Tools	Part Numbers	Part Numbers		
Pliers AMP	49935	OUT0405-0223AS		
Pliers COJACK	MS3191-1	OUT0405-0102AS		
Pliers DMC	FT8	OUT0405-0167AS		
Positionner DMC	TP1012	OUT0405-0176AS		
Positionner DMC	TP900-1	OUT0405-0168AS		
Pliers / Pince DMC	M317	OUT0405-0110AS		
Positionner DMC	TP1065	OUT0405-0218AS		
Pliers DUBUIS	D31	OUT0405-0117AS		
Die DUBUIS	02379	OUT0405-0142AS		





DMC Plier

HEXAGONAL TOOLS - MECATRACTION

T2

Cable Section	Manua	l Pliers	Hydraul 13 To		Hydraulic Pliers 20 Tonnes		
	Pliers	Die	Pliers	Die	Pliers	Die	
4 mm²		D5HCU4-120 OUTO405-0371AS					
6 mm²		H1 35-6 OUT0405-0187AS					
10 mm²		H1 10-35F OUT0405-0199AS					
16 mm²	2900	H1 16-50F OUT0405-0137AS					
25 mm²	PMM1 OUT0405-0314AS	H1 25-70F OUT0405-0138AS	PA133K OUT0405-0367AS	TN25V13 OUT0405-0419AS	PA133K OUT0405-0367AS F 4622 K OUT0405-0360AS SU 210K OUT0405-0443AS	TN25V20 OUT0405-454AS	
35 mm²		H1 10-35F OUT0405-0199AS		TN35V13 OUT0405-0420AS		TN35V20 OUT0405-0455AS	
50 mm²		H1 16-50F OUT0405-0137AS		TN50V13 OUT0405-0413AS		TN50V20 OUT0405-0421AS	
70 mm²		H1 25-70F OUT0405-0138AS		TN70V13 OUT0405-0422AS		TN70V20 OUT0405-0380AS	
95 mm²				TN95V13 OUT0405-0423AS		TN95V20 OUT0405-0424AS	
120 mm²				TN120V13 OUT0405-0412AS		TN120V20 OUT0405-0425AS	
150 mm²				TN150V13 OUT0405-0445AS		TN150V20 OUT0405-0426AS	
185 mm²					(for SU 210K)	TN185V20 OUT0405-0397AS	

Die for manual pliers





Die 20 TONNES







Contact details:

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