

C Series

EMC Metallic Circular Connectors



Hypertac® Hyperboloid Technology

Smiths Interconnect 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

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.

Features

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 minimal 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 about 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° 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.

Benefits

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.

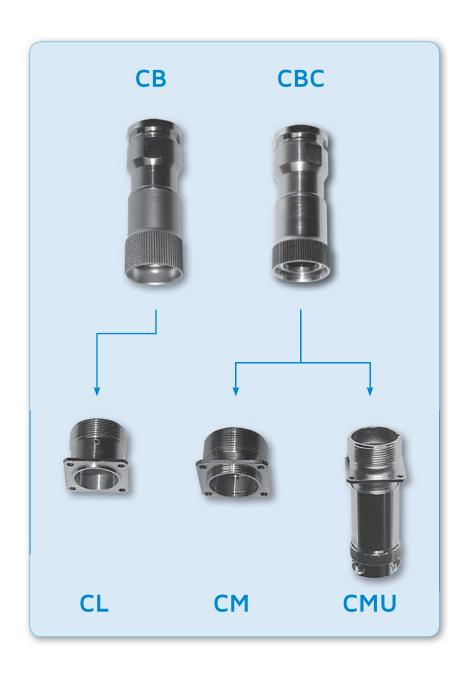
Maximum contact performance

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.

Receptacle and Plug Compatibility





Product description



The Smiths Interconnect C Series is an IP67 circular connector with an EMC metal housing. The C Series connectors feature with a compact and small size equipped with gold plating contacts. They guarantee an excellent resistance to the high levels of shocks and vibrations on rail and industrial applications.

The connectors use the ultra-high reliability Hypertac® hyperboloid contact system renowned for delivering unfailing performance for the most demanding railway and mass transit applications.

C series is a circular metal connector series, with an IP67 sealing level and shielding capability for use in harsh environmental conditions such as high vibration levels, damp or shock. It provides long life expectancy and reduces the need of connector maintenance.

The C series connectors offer a monobloc housing to avoid any wrong assembling and sealing problems. Five coding points ensure a safe mating and prevent contacts to be broken when plugging. Cable clamps with a large cabling chamber allows a variable cable diameter range of 6-13.5 mm.

The C series proposes a shielded connection for your EMI and RFI constraints. Available with a large choice of shells, we also offer standard cable assemblies to provide a complete interconnect solution to simplify your supply chain.

EMC Shielded Metallic Circular Connectors

Features & Benefits

Superior Performance

- Hypertac® contact technology ensures immunity to shock and vibration and minimal contact resistance
- Outstanding protection against electromagnetic interference; 70db @ 10MHz
- Corrosion resistant; 500h salt spray (5%NaCl – NF C 20-711)
- Suitable to EN Railway cables

Compact, Flexible Design

- Metal shell
- Threaded coupling sleeve with self-locking mechanism
- Variable cable clamp 6-13.5mm
- Square shape receptacle for panel mount
- Contacts with solder and crimp termination available
- Compact and small size

20

CBC

How To Order - CB & CM & CL series

0 3 2



1 2	3 4 5 6 7						
1 Series	C Series						
2 Model	B Plug M Short receptacle and cable mount receptacle L Long receptacle						
3 Туре	Standard (2) C(1) Plug short coupling sleeve (mate with CM receptacle) E Five polarized keys for M & L receptacle U Cable mount receptacle for M model						
4 Layout	Single polarized key 0 3 2 3 contacts Ø 2 mm* 5 1 5 5 contacts Ø 1.50 mm* 6 1 5 6 contacts Ø 1.50 mm** 5 polarized keys 8 1 2 8 contacts Ø 1.20 mm* 1 2 1 12 contacts Ø 1.02 mm*						
5 Part - Polarity	O 3 Plug without contact 1 0 Female plug** 1 1 Male plug** - except CBC(1) 1 2 Female plug* 2 0 Female Receptacle** except M model 2 1 Male Receptacle** 2 2 Female Receptacle* except M model 3 Male Receptacle* 2 3 Male Receptacle*						
6 Termination styles	0 0 Without contact 2 0 Crimp termination 2 1 Crimp termination only for Ø 2mm contact, 0.34 to 1.34 mm²						
7 Coding Tabulation	Single polarized key α 0° 30° 45° 60° 75° 90° 105° 120° 135° 150° CodeAFBGCHDJE Five polarized key CodeK (plug only)						

^{*} Clip contact retaining system

^{**} Cloc contact retaining system

⁽¹⁾ CBC plug is always female

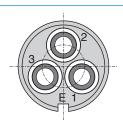
⁽²⁾ Standard plug mate only with CL receptacle

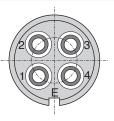


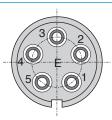
General Specifications

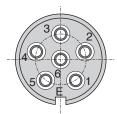
Single polarized key

Layout









	032	032 042		615	
Technical					
Contact numbers & Ø	3 Ø 2 mm	4 Ø 2 mm	5 Ø 1.50 mm	6 Ø 1.50 mm	
Part number male insert Cable size	CMY0322320 1.34 to 2 mm ²	CMY0422320 0.34 to 1.34 mm ²	CLY5152320 0.34 to 1.91 mm ²	CMY6152120 0.22 to 1.91 mm ²	
Part number female insert Cable size	CMY0321220 1.34 to 2 mm ²	CMY0421220 0.34 to 1.34 mm ²	CLY5151220 0.34 to 1.91 mm ²	CMY6151020 0.22 to 1.91 mm ²	
Part number male insert Cable size	CMY0322321 0.34 to 1.34 mm ²				
Part number female insert Cable size	CMY0321221 0.34 to 1.34 mm ²				
Insulation material	Thermoplastic	Thermoplastic	Thermoset	Thermoplastic	
Contact material	Brass	Brass	Brass	Brass	
Contact plating	Au/Ni	Au/Ni	Au/Ni	Au/Ni	
Part number male crimp contacts	0200621-20ROG 1.34 to 2 mm ² 0200631-21ROG 0.34 to 1.34 mm ²	0201071-20ROG 0.34 to 1.34 mm²	0150851-20ROG 0.34 to 1.91 mm ²	0150871-20-OG 0.22 to 1.91 mm ²	
Part number female crimp contacts	0200342-20RN1 1.34 to 2 mm ² 0200352-21RN1 0.34 to 1.34 mm ²	0200862-20RN1 0.34 to 1.34 mm ²	0150842-20RG0 0.34 to 1.91 mm ²	0150682-20-G1 0.22 to 1.91 mm ²	
Vibration withstanding		25 to 250 Hz - 5 g fo	ollowing NF F 61-030		
Connector life cycles		> 500 ma	ting cycles		
Contact retention forces	> 90 N with clip	> 90 N with clip	> 70 N with clip	> 70 N with cloc	
Electrical					
Current rating (all contacts wired)	15 A	15 A	8 A	8 A	
Testine veltage	2.750 / 2.000 \/	2.750 / 2.000 \/	2 800 / 2 500 //	2 200 / 2 000 \/	

Current rating (all contacts wired)	15 A	15 A	8 A	8 A		
Testing voltage	2 750 / 2 000 V	2 750 / 2 000 V	2 800 / 2 500 V	2 200 / 2 000 V		
Contact resistance	< 2 mΩ	< 2 mΩ	< 3 mΩ	< 3 mΩ		
Insulation resistance	≥ 5.10³ MΩ					
EMC (CB connector)	> 70 db to 100 Mhz					

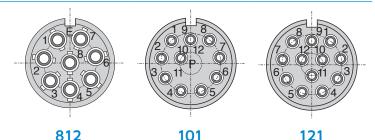
Environmental

Category	CEI 68-1 (NF C 20-700) -55°C to +125°C/56 days				
Protection level	IP 67 (NF EN 60529)				
Corrosion resistance	500 h. salt spray 5% Na Cl (NF C 20-711)				

General Specifications

Five polarized key

Layout



	012	101	121			
Technical						
Contact numbers & Ø	8 Ø 1.20 mm	10 Ø 1.02 mm	12 Ø 1.02 mm			
Part number male insert Cable size	CMY8122320 0.22 to 1.91 mm ²	CMY1012320 1.34 to 2 mm ²	CMY1212320 0.22 to 0.93 mm ²			
Part number female insert Cable size	CMY8121220 0.22 to 1.91 mm ²	CMY1011220 1.34 to 2 mm ²	CMY1211220 0.22 to 0.93 mm ²			
Insulation material	Thermoset	Thermoset	Thermoset			
Contact material	Brass	Brass	Brass			
Contact plating	Au/Ni	Au/Ni	Au/Ni			
Part number male crimp contacts	0120151-20ROG 0.22 to 1.91 mm ²	0100721-20ROG 0.22 to 0.93 mm²	0100721-20ROG 0.22 to 0.93 mm ²			
Part number female crimp contacts	0120182-20RG1 0.22 to 1.91 mm ²	0100612-20RG0 0.22 to 0.93 mm ²	0100612-20RG0 0.22 to 0.93 mm ²			
Vibration withstanding	25 to 25	25 to 250 Hz - 5 g following NF F 61-030				
Connector life cycles		> 500 mating cycles				
Contact retention forces		> 70 N with clip				

Electrical

Current rating (all contacts wired)	5 A			
Testing voltage	2 400 / 2 200 V	2 800 / 2 000 V	1 000 / 1 000 V	
Contact resistance	< 5 mΩ	< 6 mΩ	< 6 mΩ	
Insulation resistance	≥ 5.10³ MΩ			
EMC (CB connector)	> 70 db to 100 Mhz			

Environmental

Category	CEI 68-1 (NF C 20-700) -55°C to +125°C/56 days		
Protection level	IP 67 (NF EN 60529)		
Corrosion resistance	500 h. salt spray 5% Na Cl (NF C 20-711)		

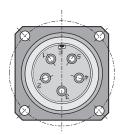
Single Polarized Connectors

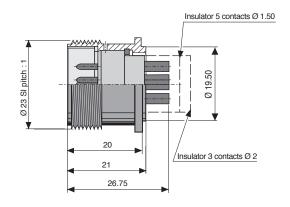
Layout 032, 042, 515, 615

Receptacle dimensions

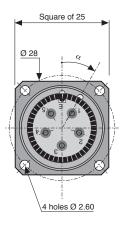
CL-

Wiring side



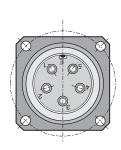


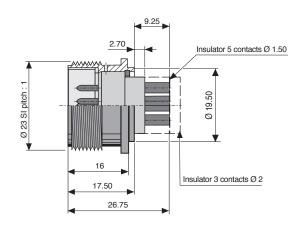
Mating side



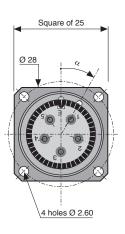
CM-

Wiring side





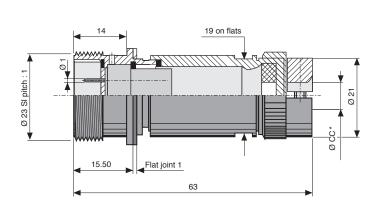
Mating side



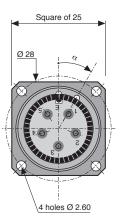
Single Polarized Connectors

Layout 032, 042, 515, 615

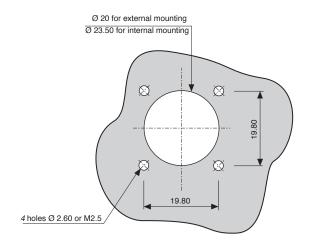
CMU cable mount receptacle dimensions



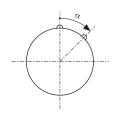
Mating side



Panel cut out



Receptacle coding tabulation



α	Code
O°	
30°	А
45°	F
60°	В
75°	G
90°	С
105°	Н
120°	D
135°	J
150°	E

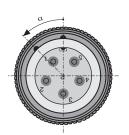
Single Polarized Connectors

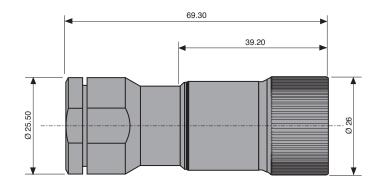
Layout 032, 042, 515, 615

Plug dimensions

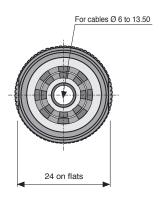
CB-

Mating side



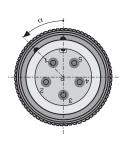


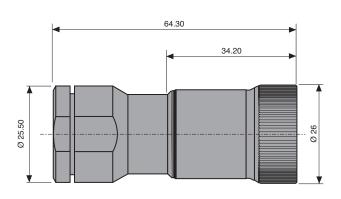
Wiring side



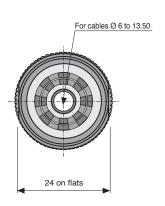
CBC

Mating side





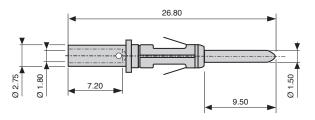
Wiring side



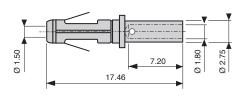
Contacts

Males Females

Contacts Ø 1.50 for arrangement 515 [0.34 to 1.91 mm²]

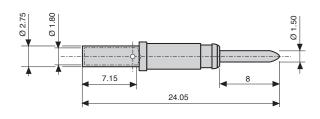


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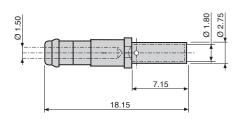


Ref: 0150842-20RG0

Contacts Ø 1.50 for arrangement 615 [0.22 to 1.91 mm²]

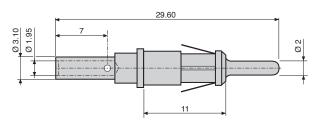


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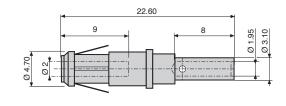


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Contacts Ø 2 for arrangement 032 [1.34 to 2 mm²]

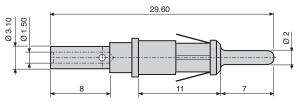


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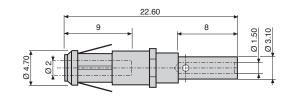


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Contacts Ø 2 for arrangement 032 [0.34 to 1.34 mm²]

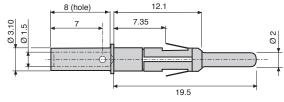


Ref: 0200631-21ROG

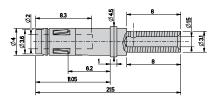


Ref: 0200352-21RN1

Contacts Ø 2 for arrangement 042 [0.34 to 1.34 mm²]



Ref: 0201071-20ROG



Ref: 0200862-20RN1



Layouts - Wiring side viewed

Receptacle

Plug

3 contacts Ø 2.0

0	3	2
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Contact termination

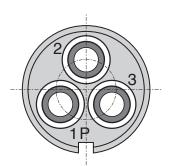
Ref.

wire size: 1.34 - 2.00 mm²

20

wire size: 0.34 - 1.34 mm²





4 contacts Ø 2.0

Ref.

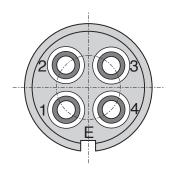


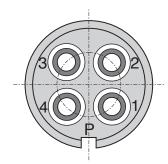
Contact termination

wire size: 0.34 - 1.34 mm²

Ref.







5 contacts Ø 1.5

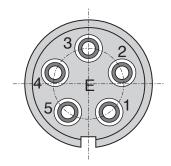
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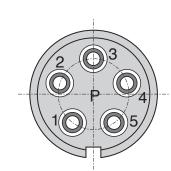


Contact termination wire size: 0.34 - 1.91 mm²

Ref.

2 0





6 contacts Ø 1.5

Ref.

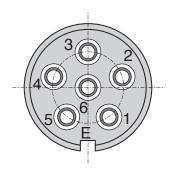


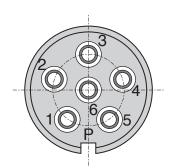
Contact termination

wire size: 0.22 - 1.91 mm²

Ref.

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CONSULT US ABOUT ARRANGEMENTS WITH SOLDER CUP CONTACTS

Five Polarized Keys Connectors

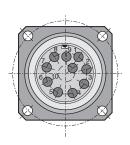
Layout 101, 121, 812

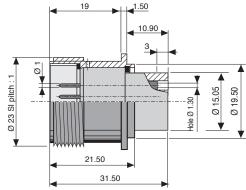
Receptacle dimensions

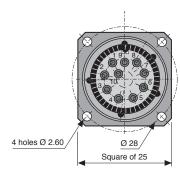
CLE

Wiring side





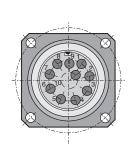


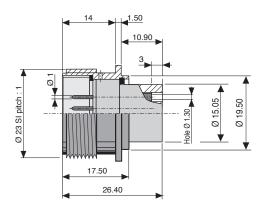


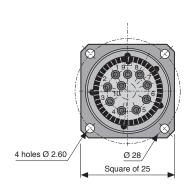
Mating side

CME

Wiring side Mating side







Five Polarized Keys Connectors

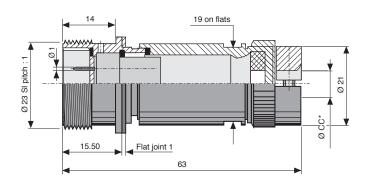
Layout 101, 121, 812

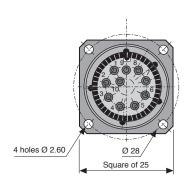
Receptacle dimensions

CMU

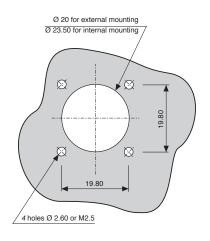
Cable receptacle

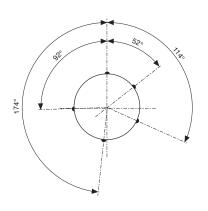
Mating side



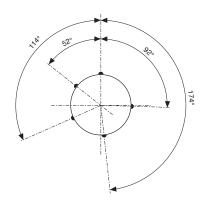


Panel cut out and polarized key overview





CB, CBC plug polarized key overview

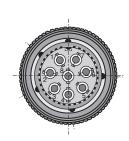


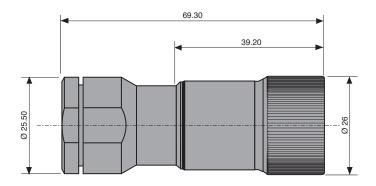
Five Polarized Keys Connectors

Layout 101, 121, 812

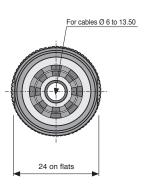
Plug dimensions

Mating side



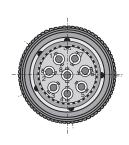


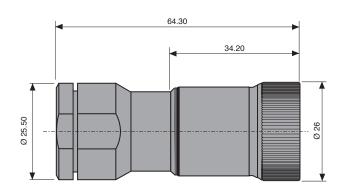
Wiring side



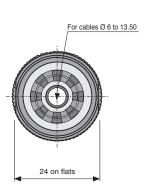
CBC--- -- -- K

Mating side





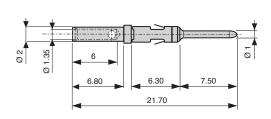
Wiring side



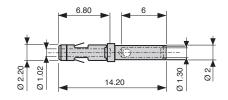
Contacts

Males Females

Contacts Ø 1 for arrangements 101 & 121 [0.22 to 0.93 mm²]

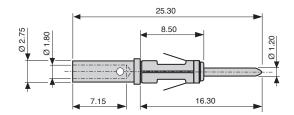


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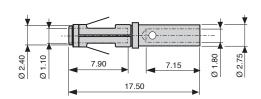


Ref: 0100612-20ROG

Contacts Ø 1.20 for arrangement 812 [0.22 to 1.91 mm²]



Ref: 0120151-20ROG



Ref: 0120182-20RG1

Arrangements - Wiring side viewed

Receptacle

Plug

8 contacts Ø 1.2

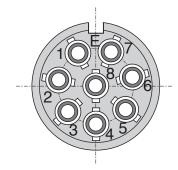
Ref.

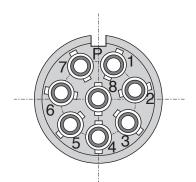
Contact termination

wire size: 0.22 - 1.91 mm²

Ref.

20





10 contacts Ø 1.0

Ref.

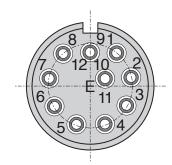


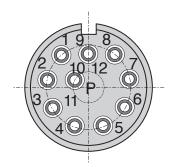
Contact termination

wire size: 0.22 - 0,93 mm²

Ref.

20





12 contacts Ø 1.02

Ref.

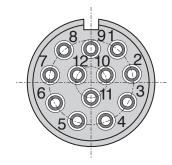


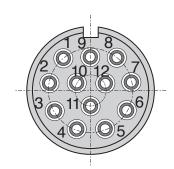
Contact termination

wire size: 0.22 - 0,93 mm²

Ref.

20





CONSULT US ABOUT ARRANGEMENTS WITH SOLDER CUP CONTACTS



Tooling

CONTACTS	CRIMPING						INSERTION	EXTRACTION
Contact part number	Crimp tool	AWG	Wire cross section	Positioner	Turret	Selector position	Tool pa	rt number
	ASTRO TOOL TGV 101	24 22 20 18 16 14	0.22 0.34 0.60 0.93 1.34 1.91	Without	ASTRO TOOL TGV 202 red	2 3 4 5 6 7	S_051 or S_059	
0150 682-20-G1 0150 761-20-OG	DANIELS FT8	24 22 20 18 16 14	0.22 0.34 0.60 0.93 1.34 1.91	Without	DANIELS SH 463 RED	2 3 4 5 6 7		S_051 or S_072
	ASTRO TOOL MS 3191/1	22 20 18 16 14	0.34 0.60 0.93 1.34 1.91	SS.0150000002 HYPERTAC		Without		
0150 851-20ROG	ASTRO TOOL TGV 101	22 20 18 16 14	0.34 0.60 0.93 1.34 1.91	Without	ASTRO TOOL TGV 201*	3 4 5 6 7		50.0450000005
0150 842-22RG0	DANIELS FT8	22 20 18 16 14	0.34 0.60 0.93 1.34 1.91	Without	DANIELS SH 462*	6 6 7 7 7		SD-0150000005
0200 621-20ROG	ASTRO TOOL TGV 101	16 15 14 14	1.34 1.50 1.91 2.00	Without	ASTRO TOOL TGV 202 yellow	6 6 7 7		SD 0200000001
0200 342-20RN1	DANIELS FT8	16 15 15 14	1.34 1.50 1.91 2.00	Without	DANIELS SH 463 yellow	6 6 7 7		SD-0200000001
0200 631-20ROG	ASTRO TOOL TGV 101	22 20 18 16	0.34 0.60 0.93 1.34	Without	ASTRO TOOL TGV 202 yellow	5 5 5 6		CD 0200000001
0200 352-20RN1	DANIELS FT8	22 20 18 16	0.34 0.60 0.93 1.34	Without	DANIELS SH 463 yellow	5 5 5 6		SD-0200000001
0201 071-20ROG	ASTRO TOOL TGV 101	22 20 18 16	0.34 0.60 0.93 1.34	Without	ASTRO TOOL TGV 201	3 4 5 6		SD-030000003
0200 862-20RN1	DANIELS FT8	22 20 18 16	0.34 0.60 0.93 1.34	Without	DANIELS SH 462	5 5 5 6		SD-020000003

CONTACTS		CRIMPING						EXTRACTION	
Contact part number	Crimp tool	AWG	Wire cross section	Positioner	Turret	Selector position	Tool part number		
	ASTRO TOOL TGV 101	24 22 20 18	0.22 0.38 0.60 0.93		ASTRO TOOL TGV 210	2 3 4 5	S_069		
0100 612-20RG0 0100 721-20ROG	DANIELS FT8	24 22 20 18	0.22 0.38 0.60 0.93	Without	DANIELS TP 945	2 3 4 5		S_056	
	ASTRO TOOL M22520/2.01	24 22 20 18	0.22 0.38 0.60 0.93	S_055		Without			
	ASTRO TOOL TGV 101	24 22 20 18 16 14	0.22 0.38 0.60 0.93 1.34 1.91	Without	ASTRO TOOL TGV 202 blue	2 3 4 5 6 7		SD-012000000	
0120 182-20RG1 0120 151-20ROG	DANIELS FT8	24 22 20 18 16 14	0.22 0.38 0.60 0.93 1.34 1.91	Without	DANIELS SH 462 blue	2 3 4 5 6 7			SD-0120000002
	ASTRO TOOL MS 3191/1	24 22 20 18 16 14	0.22 0.38 0.60 0.93 1.34 1.50 1.91	SS.0150000003 HYPERTAC		Without			



How To Order - CNE & CRE series



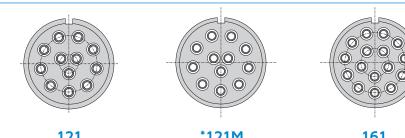
CNE	1 2 1	1 2	20	1	5	A			
1 2 3	4	5	6	7	8	9			
1 Series	C Series								
2 Model	N Standard	N Standard shell R Long shell version							
3 Туре	E Five codi	E Five coding key							
4 Layout	1 2 1 12 0	contacts Ø 1.50 r	mm* 161	16 contacts Ø) 1.50 mm**				
5 Part - Polarity	PLUG 0 3 Withou 1 2 Female 1 3 Male	ut contact e	0 4 V 2 2 F	RECEPTACLE 0 4 Without contact 2 2 Female 2 3 Male					
6 Contact termination	0 0 Without contact 2 0 Crimp termination								
7 Cable clamp type	1 Straight 2 Right angle								
8 Cable clamp	Ø mm 8 Code 1	10 12 2 3	14 16 4 5						
9 Coding Tabulation	α 0° Coding	25° 77° /	39° 211° 293	° 325° F					

^{*} Clip contact system

^{**} Cloc contact system

General Specifications

Layout



	121	*121M	161		
Technical					
Contact numbers & Ø	12 Ø 1.50mm	12 Ø 1.50mm	16 Ø 1.50mm		
Female insert plug	CNY1211220		CNY1611220		
Male insert plug	CNY1211320		CNY1611320		
Female insert receptacle	CNY1212220		CNY1612220		
Male insert receptacle	CNY1212320	CRY1212320M	CNY1612320		
Insulation material	Thermoset	Thermoset	Nylon		
Contact material	Brass	Brass	Brass		
Contact plating	Au/Ni	Au/Ni	Au/Ni		
Female crimp contacts & wire size	0150842-20RG0 0.34 to 1.34 mm≈		0150682-20-G1 0.22 to 1.91 mm≈		
Male crimp contacts & wire size	0150841-20ROG 0.34 to 1.91 mm≈	0150841-20ROG 0.34 to 1.91 mm≈	0150761-20-0G 0.22 to 1.91 mm≈		
Male crimp pre-mating contacts & wire size		0150851-20ROG 0.34 to 1.91 mm≈			
Vibration withstanding	25 - 250 Hz - 5 g (following) NF F 61-030				
Connector life cycles	> 500 (mating cycles)				
Contact retention forces	> 70 N (clip)	> 70 N (clip)	> 40 N (cloc)		

Electrical

Current rating (all contacts wired)	8 A	8 A	6 A			
D.W.V.	2 600 VAC	2 600 VAC	1 750 VAC			
Contact resistance	< 2 mΩ					
Insulation resistance	> 5.10 ³ MΩ	> 5.10³ MΩ	> 5.10 ³ MΩ			

Environmental

Category	CEI 68-1 (NF C 20-700) -55°C to +125°C/56 days			
Protection level	IP 56 (NF EN 60529)			
Corrosion resistance	500 h. BS salt spray 5% Na Cl (NF C 20-711)			

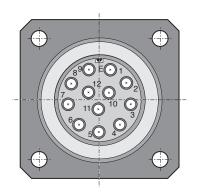
Notes

*121M: insert with 11 contacts + 1 grounding contact used only with male CRE receptacle.

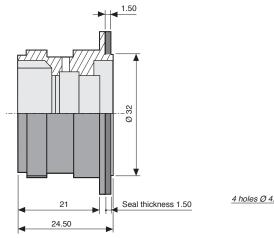
Layout 121

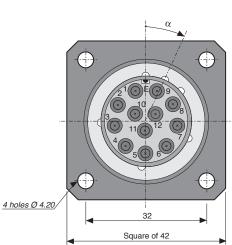
CNE Receptacle dimensions

Wiring side



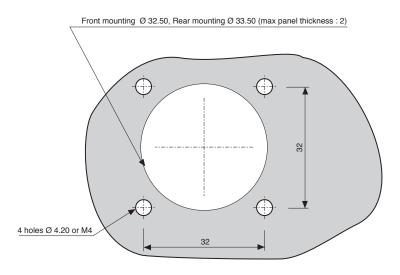
Mating side





See the coding table page 15

Panel cut out



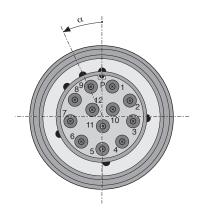
Notes:

Receptacle shown with layout # 121" See the main layouts page 14

Layout 121

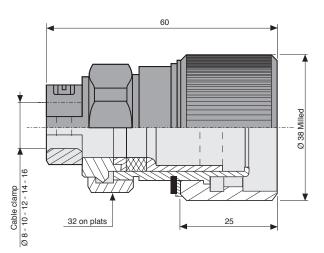
CNE Plug dimensions

Mating side

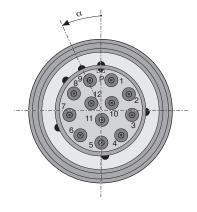


See the coding table page 15

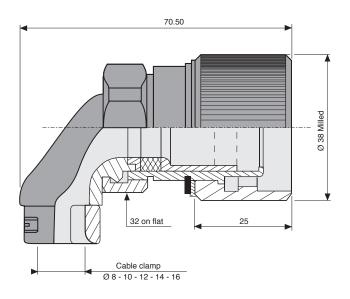
Straight



Right angle



See the coding table page 15



Notes

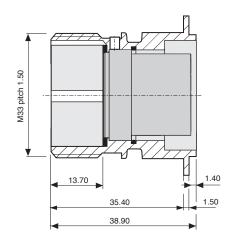
Plugs shown with layout # 121" See the main layouts page 14

Layout 161

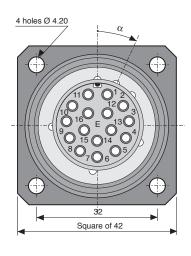
CRE Receptacle dimensions

Wiring side

2 10 011 30 12 30 16 00 40 14 015 00 5 60 7 8



Mating side

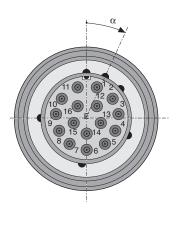


See the coding table page 15

CRE Cable receptacle dimensions

83.50 15 O cable clamp to be define as on falls and the second a

Mating side



See the coding table page 15

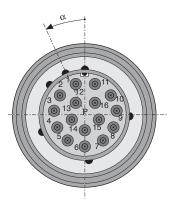
Notes:

Receptacle shown with layout # 161" See the main layouts page 14

Layout 161

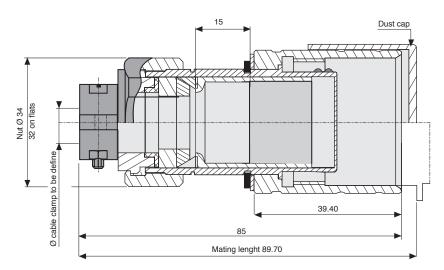
CRE Plug dimensions

Mating side



See the coding table page 15

Straight



Notes:

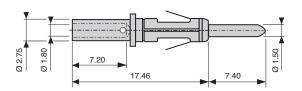
Plugs shown with layout # 161" See the main layouts page 14

CNE & CRE Contacts Clip retention

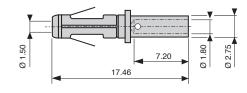
Males

Females

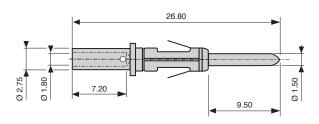
Contacts Ø 1.50 for insert C-Y 121 -- -- [wire size 0.34 - 1.91 mm²]



Ref: 0150841-20ROG



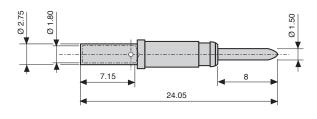
Ref: 0150842-20RG0



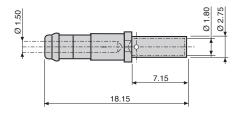
*Ref: 0150851-20ROG insert CRY 121 -- -- M (wire size 0.34 - 1.91 mm²)

Cloc retention

Contacts Ø 1.50 for insert CNY 161 -- -- [wire size 0.22 - 1.91 mm²]



Ref: 0150761-20-OG



Ref: 0150682-20-G1

Notes

 * For insert CRY 121 -- -- M (11 contacts + 1 grounding contact) used only with male CRE receptacle.

CNE & CRE Layout wiring side views

Receptacle

Plug

12 contacts Ø 1.5

Ref.

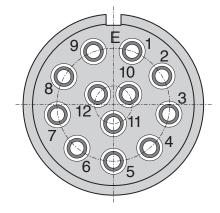


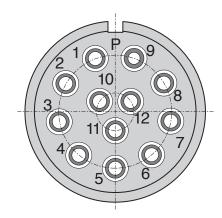
Contact termination

wire size: 0.34 - 1.91 mm²

Ref.

20





12 contacts Ø 1.5

Ref.

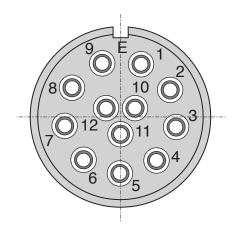


Contact termination

wire size: 0.34 - 1,91 mm²

Ref.

20



16 contacts Ø 1.5

Ref.

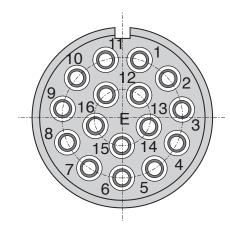


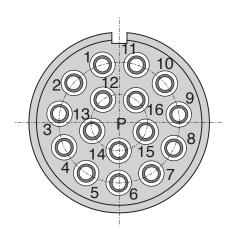
Contact termination

wire size: 0.13 - 1,91 mm²

Ref.

20

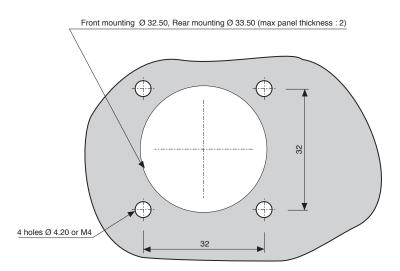




Notes:

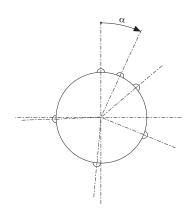
*212M insert with11 contacts + 1 grounding contact used only with male CRE receptacle.

CNE & CRE Panel cut out

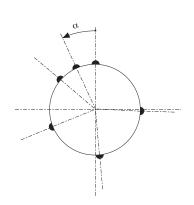


Coding table

Mating side viewed receptacle



Mating side viewed plug



α	25°	77°	139°	211°	293°	325°
Code	А	В	С	D	E	F

Wiring Tools

CONTACTS	CRIMPING					ASSEMBLY		
Contact	Crimp ANA/	AWG	Wire cross	Davidiana	Turret	Selector	Tool part number	
part number	tool	AWG	section	Positioner		Turret	position	Insertion
0150 841-20ROG	ASTRO TOOL TGV 101	22 20 18 16 14	0.34 0.60 0.93 1.34 1.91	Without	ASTRO TOOL* TGV 201	3 4 5 6 7	Without	SD-0150000005
	DANIELS FT8	22 20 18 16 14	0.34 0.60 0.93 1.34 1.91		DANIELS* SH 462	3 4 5 6 7		
0150 761-20-OG 0150 682-20-G1	ASTRO TOOL TGV 101	26 24 22 20 18 16 14	0.13 0.22 0.34 0.60 0.93 1.34 1.91	Without	ASTRO TOOL TGV 202 red insert	2 2 3 4 5 6 7	S_059 (L/RH)	S_072
	DANIELS FT8	26 24 22 20 18 16 14	0.13 0.22 0.34 0.60 0.93 1.34 1.91		DANIELS SH 463 red insert	2 2 3 4 5 6 7	or S_074 (L/ZH)	

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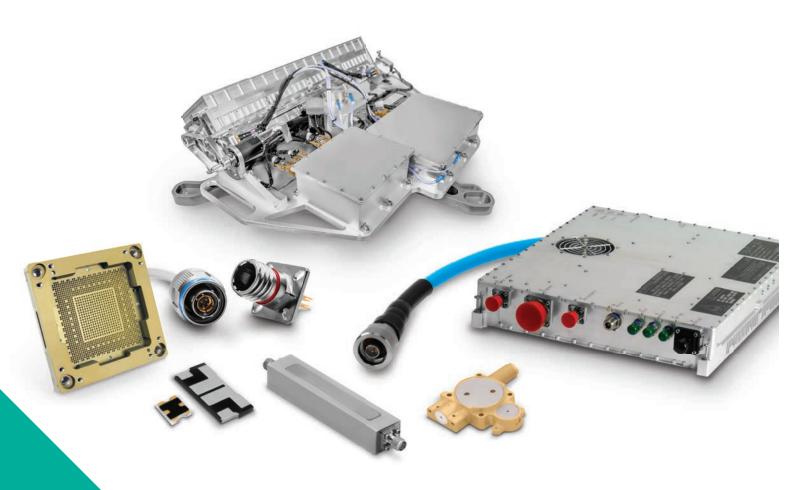
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 - Time & Frequency Systems