



**MODULAR
CONNECTORS**



Rack and Panel

smiths

Smiths Interconnect

February | 2005

ISSUE 2.0 ENGLISH

HYPERTAC CONTACT

wire sleeve before
insertion of pin



pin partially
inserted into sleeve



pin completely
inserted into sleeve



HYPERTAC SOCKET CONTACT BRIEFLY

HYPERTAC (= HYPERboloid conTACT) is a socket contact designed and manufactured in such a manner that, implementing advanced micromechanics technology, satisfies performance requirements previously considered impossible.

The shape of the sleeve is formed by a springy wires special arrangement. When pin is inserted into this sleeve every wire stretches to accommodate it, so that wires wrap themselves around pin providing lines of current paths.

HYPERTAC SOCKET CONTACT, ADVANTAGES

1. ENVIRONMENTAL ADVANTAGES:

- no local hot spot (uniform current densities);
- self-cleaning pin insertion.

2. MECHANICAL ADVANTAGES:

- exceptional electrical continuity under vibration and shock (very low mass of springy wires, 360° current paths around pin and redundant current paths);
- low contact engagement and separation forces;
- long contact life (stable time/life contact resistance).

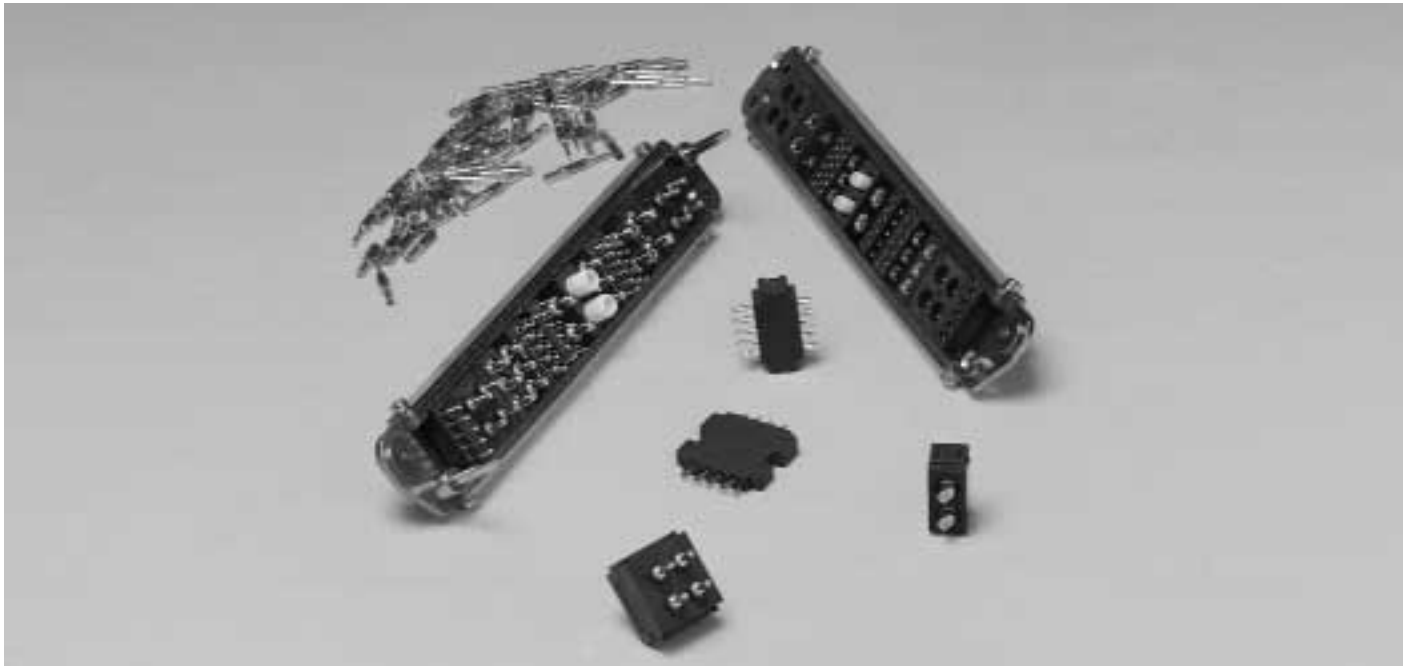
3. ELECTRICAL ADVANTAGES:

- lower contact resistance (redundant current paths);
- higher current rating (lower contact resistance);
- uniform current densities (lower current gradients).

4. USER'S ADVANTAGES:

- HYPERTAC socket contact mates every conventional cylindrical pin contact.

Modular Connectors



Hypertac® modular connectors employ a do-it-yourself system based on the building block principle.

They offer a wide variety of combinations available in a single connector frame. Thus, the user is capable of selecting the connector that fulfills the exact requirements with off-the-shelf components.

One of the many advantages of the Hypertac® contact used is its low extraction and insertion forces. In this application it enables the user to assemble large numbers of contacts into a connector which is still able to mate and unmate smoothly and easily

The modular connectors series can be built up for the following:

- Rack and panel applications
 - Standard
 - With jackscrews
 - With floating mounting
- Cable applications
 - Hooded with rounded or flat cable clamps
 - With jack screws
- Program applications

The system is composed of two basic elements: the modules and the frames.

1. The modules are the connector elements of the system. Various types of contacts are available, such as signal, power, coaxial, high voltage, etc. These contacts are mounted in small plastic blocks. Crimp contacts are also available in plastic blocks that can be mounted individually or together into the frame. The width of each module block is designated in units.

The modules have fixed contacts with:

2 contacts	@ 50 amps	(type M)
2 contacts	@ 25 amps	(type C)
2 contacts	shielded	(type E)
2 contacts	high voltage	(type H)
2 contacts	@ 200 amps	(type I)
2 contacts	fiber optic	(type Y)
3 contacts	@ 15 amps	(type B)
4 contacts	@ 15 amps	(type N)
5 contacts	@ 8 amps	(type A)
9 contacts	@ 5 amps	(type Q)
9 contacts	@ 8 amps	(type G)
17 contacts	@ 5 amps	(type D)

Coaxial contacts:

2 contacts	(type J)
2 contacts	(type K)
3 contacts	(type L)

Removable contacts:

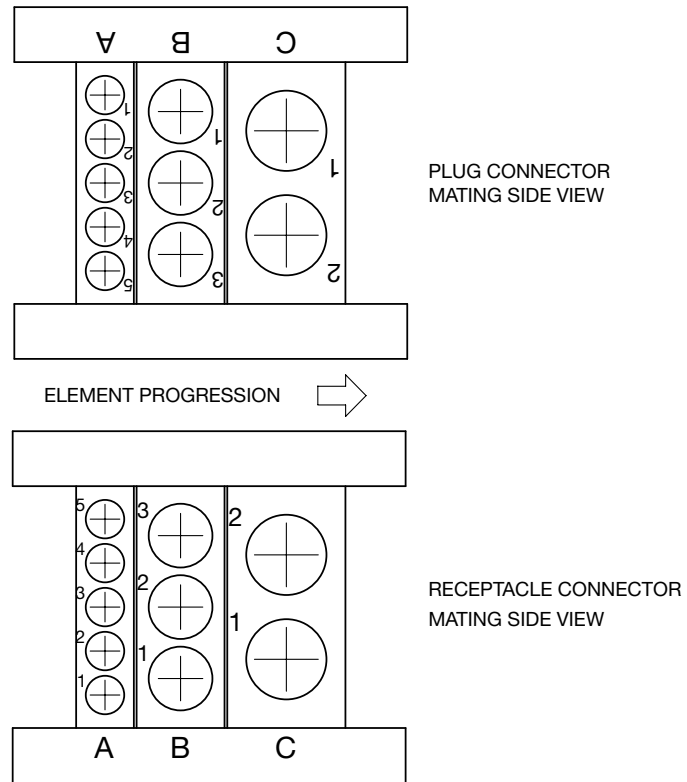
2 contacts	@ 25 or 50 amps	(type Z)
3 contacts	@ 15 amps	(type W)
5 contacts	@ 8 amps	(type T)
5 contacts	@ 8 amps	(type X)
17 contacts	@ 8 amps	(type O)
30 contacts	@ 3 amps	(type LW)

2. They range from a basic frame consisting of 2 side rails and 2 end caps to more complex versions with jack screws, hoods, cable clamps, etc. All frames are available in numerous lengths to conform to almost any combination of modules. With the modular Series, specially designed connectors can be purchased quickly and inexpensively, eliminating the extra cost and delay of custom tooling.

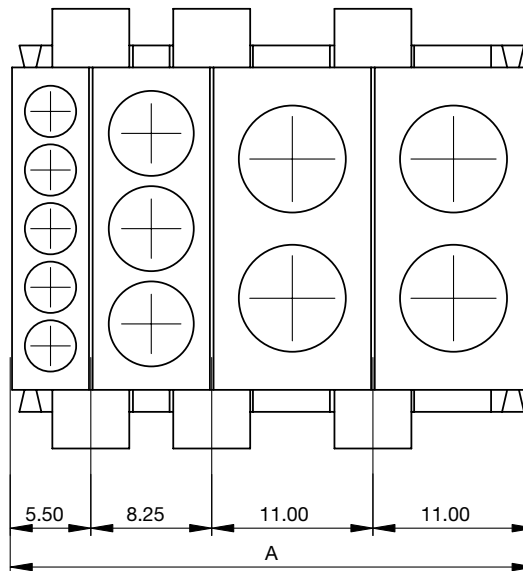
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General notes

PROGRESSION AND SUM OF CONTACT ELEMENTS (for elements see details page 14÷35)



- The progression of the contact element is always from left to right with the element orientation (position numbering) as in drawing



Therefore a "step" is defined as the length used by each assembled element.

- An elementary step is defined as 5.50 mm

- The letter "A" is the sum of the dimensions of the contact elements.

CONTACT PLATING

T Reference:

Functional part (Mating Area): 0,25 μm Gold per ASTM B-488 type II Grade C on 2 μm Ni per QQ N-290

Termination area: 0,15 μm Gold per ASTM B-488 type II Grade C on 2 μm Ni per QQ N-290

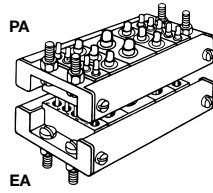
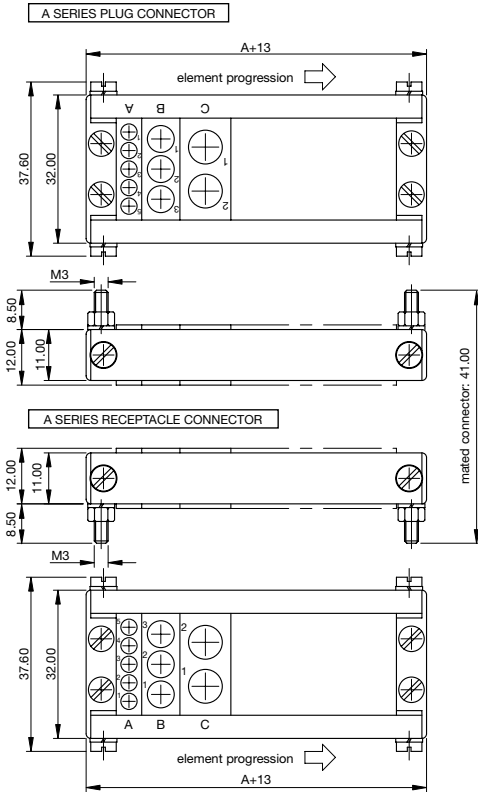
H Reference:

Functional part (Mating Area): 1,27 μm Gold per ASTM B-488 type II Grade C on 2 μm Ni per QQ N-290

Termination area: 0,15 μm Gold per ASTM B-488 type II Grade C on 2 μm Ni per QQ N-290

"A" Series

Application: Rack and Panel without guiding hardware



ORDERING CODE

Connector type

Plug	P
Receptacle	E

Series (A-B-H)

Contact surface treatment (see page 3)

Gold standard	T
Gold as per MIL-DTL- 55302	H

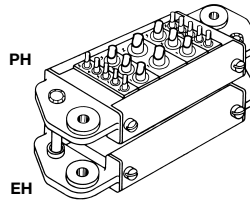
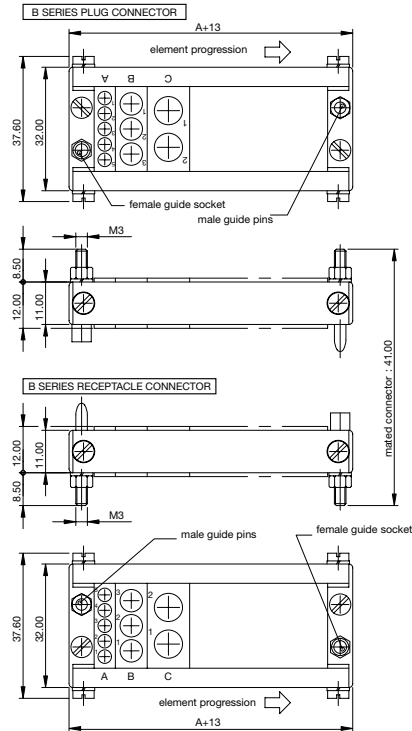
Element progression (see pages 14+35)

ex.: PAT/3Am-2Dm

(A Series plug with 3 elements type Am, two elements type Dm, surface treatment T)

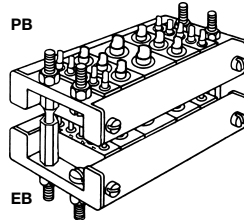
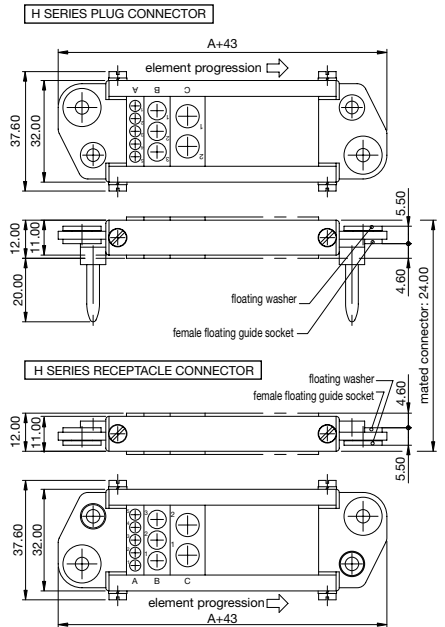
"B" Series

Application: Rack and Panel with guiding hardware



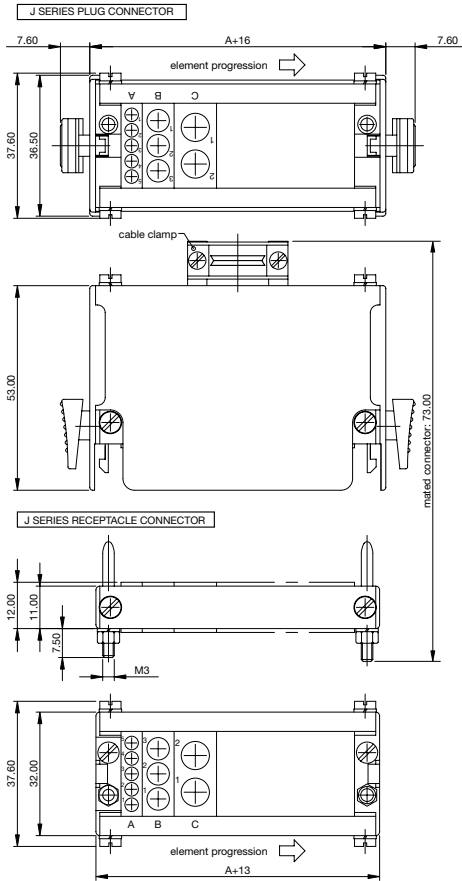
"H" Series

Application: Rack and Panel with guiding floating hardware

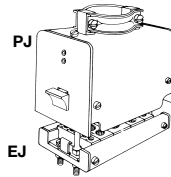


"J" Series

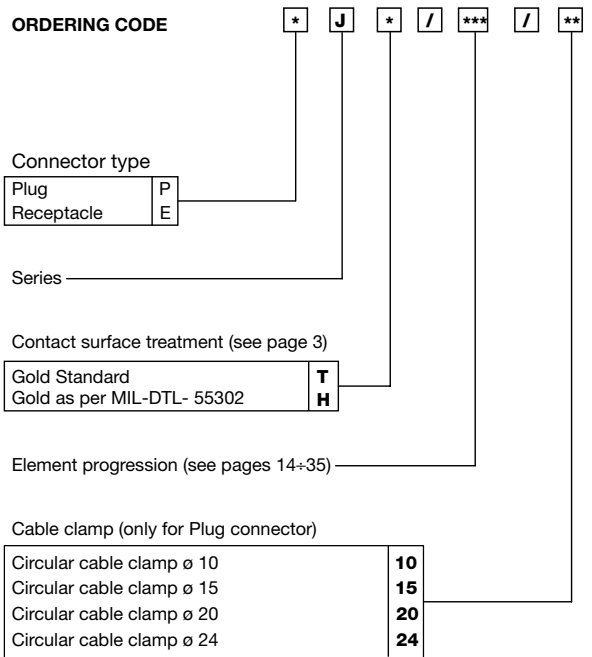
Application: Cable interface top entry, quick disconnect device



SPECIAL	
cable clamp	length (size A+16)
ø 10	≥ 29.75 ≤ 35.25
ø 15	≥ 35.25 ≤ 40.75
ø 20	≥ 40.75 ≤ 46.25
ø 24	49.00



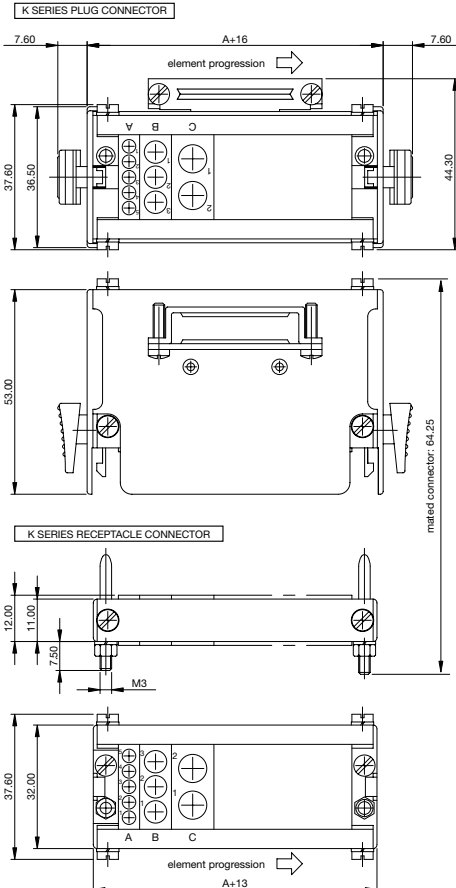
ORDERING CODE



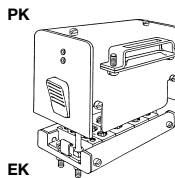
ex.: PJT/3Am-2Dm/10
 (J Series plug with 3 elements type Am, two elements type Dm, circular cable clamp ø 10, surface treatment T)

"K" Series

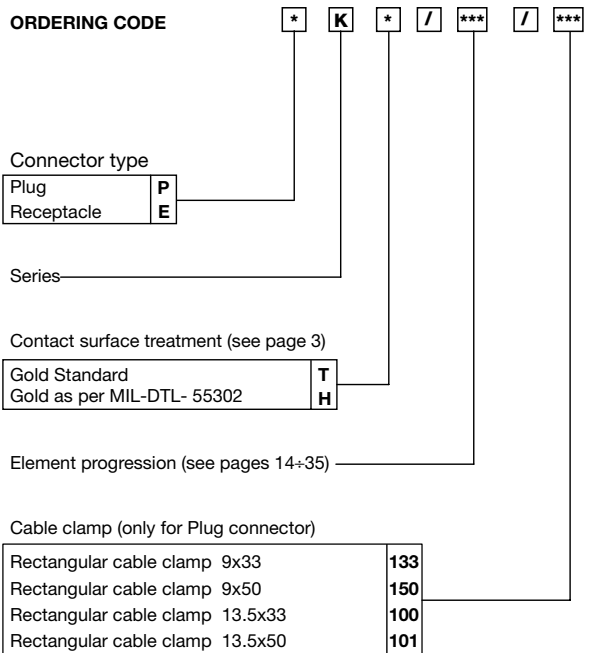
Application: Cable interface side entry, quick disconnect device



cable clamp	minimum length (size A+16)
133	49.00
100	49.00
150	65.50
100	65.50



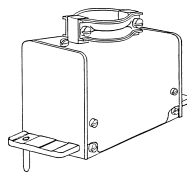
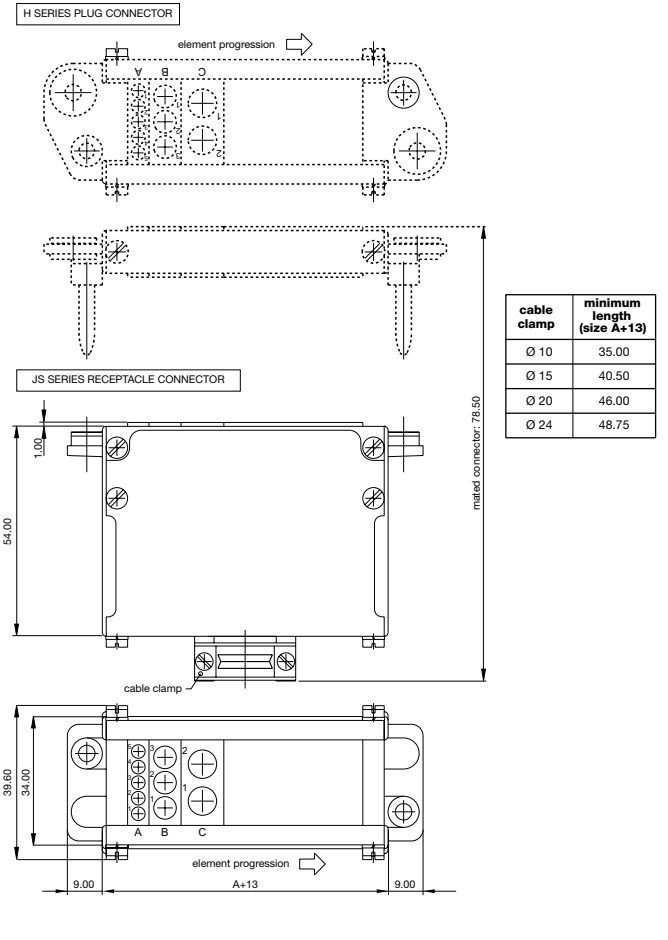
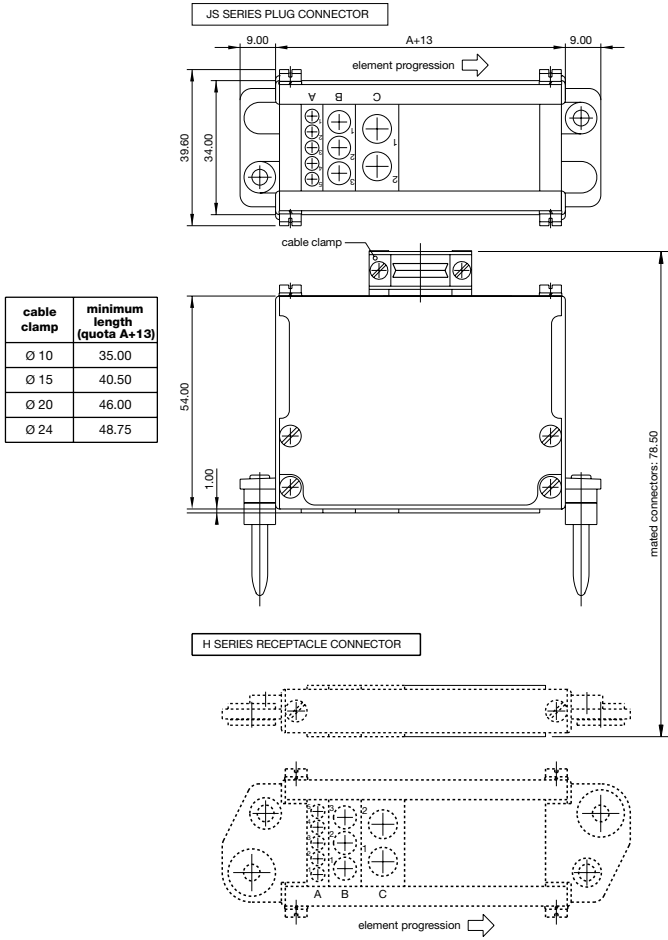
ORDERING CODE



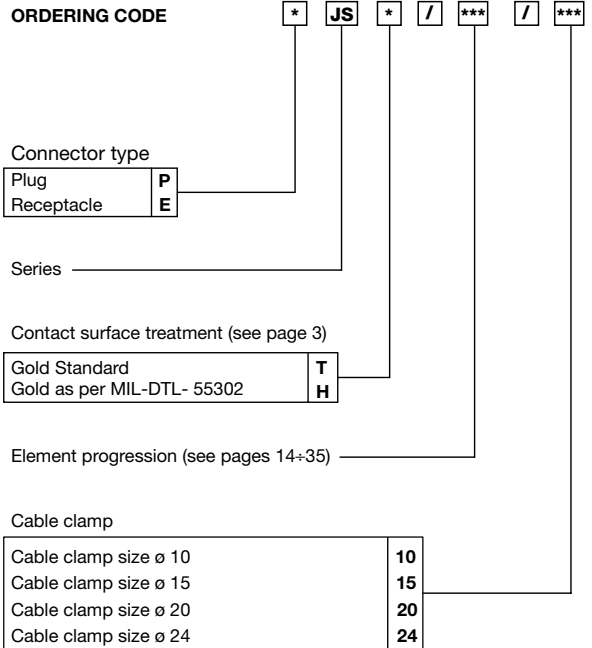
ex.: PKT/3Am-2Dm/10
 (J Series plug with 3 elements type Am, two elements type Dm, regular cable clamp 9x33, surface treatment T)

"JS" Series

Application: Cable interface on H SERIES



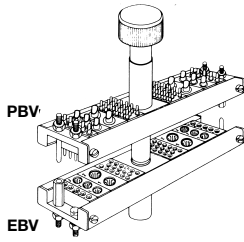
ORDERING CODE



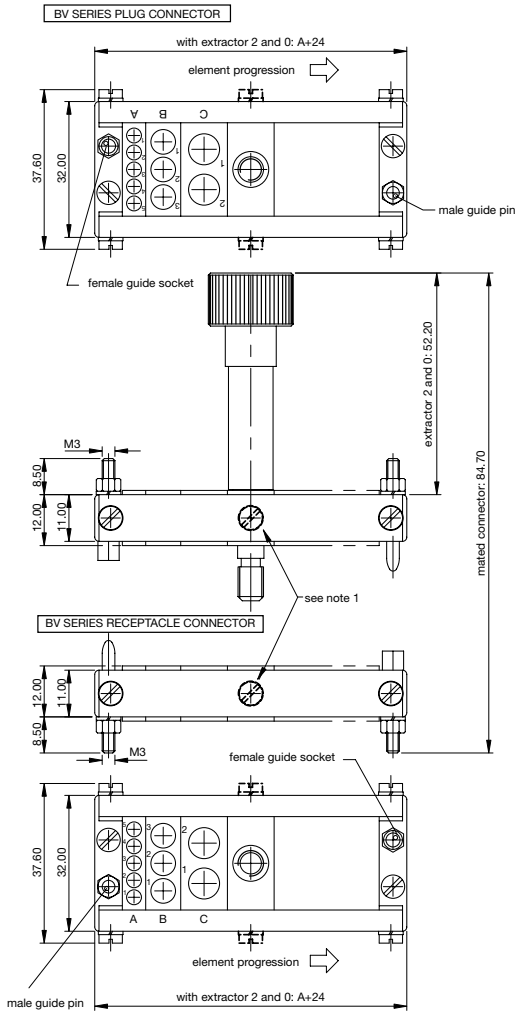
ex.: PJST/3Am-2Dm/10

(J Series plug with 3 elements type Am, two elements type Dm, circular cable clamp ø 10, surface treatment T)

“BV” Series



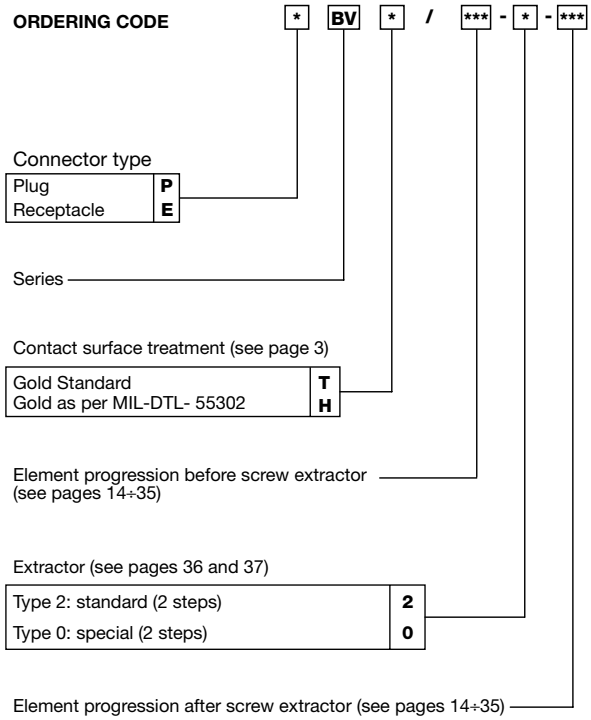
Application: Cable interface, without shell, screw locking device



Notes:

- 1) Type 2 and 0 extractor: Length (size A+24) < 101mm without extractor holding screws; > 103.75mm. with screws.
- 2) To simplify the drawing only type 2 extractor has been shown

ORDERING CODE

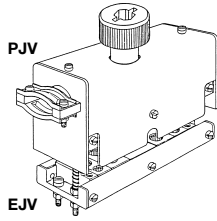


ex.: PBVT/3Am-2-3Am
 (BV Series plug with 3 elements type Am, Type 2 extractor, 3 elements type Am, contact surface treatment T)

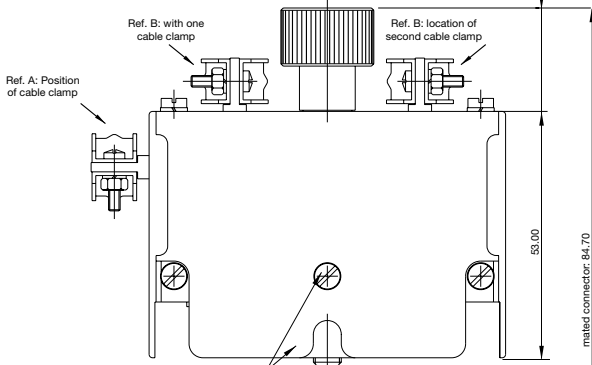
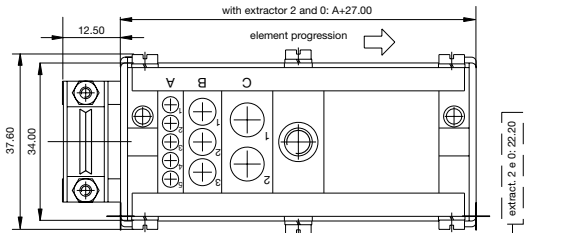
"JV" Series

Application: Cable interface with side and top clamps

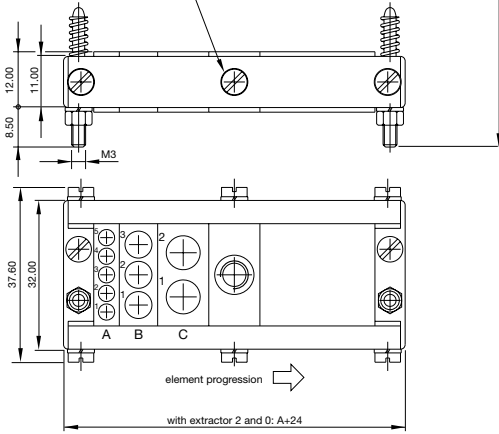
cable clamp	Choice B minimum size of connector	
	(A+27.00)	(A+32.50)
Ø 10	76.50	82.00
Ø 15	87.50	93.00
Ø 20	98.50	104.00
Ø 24	104.00	109.50



JV SERIES PLUG CONNECTOR



JV SERIES RECEPTACLE CONNECTOR



ORDERING CODE

Connector type	Plug	P	Receptacle	E
Series	* JV *			
Contact surface treatment (see page 3)	Gold Standard	T	Gold as per MIL-DTL- 55302	H
Element progression before screw extractor (see pages 14+35)	*** - * - *** / *			
Extractor (see pages 36 and 37)	Type 2: standard (2 steps)	2	Type 0: special (2 steps)	0
Element progression after screw extractor (see pages 14+35)	*** - * - *** / *			
Position of cable clamp (only for plug)	Cable clamp on side	A	Cable clamp/s on cover	B
Quantity and diameter of cable clamp (only for plug)	N° 1 cable clamp ø 10	110	N° 1 cable clamp ø 15	115
	N° 1 cable clamp ø 20	120	N° 1 cable clamp ø 24	124
	N° 2 cable clamp ø 10	210	N° 2 cable clamp ø 15	215
	N° 2 cable clamp ø 20	220	N° 2 cable clamp ø 24	224
			only on cover	

ex.: PJVT/3Am-2-3Am/B215
 (JV Series plug with 3 elements type Am, type 2 extractor, 3 elements type Am, two cable clamps ø 15 on cover, contact surface treatment T)

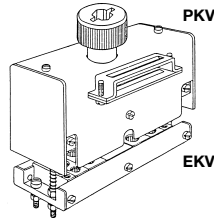
NOTES:

- 1) Type 2 and 0 extractors: Length (size A+27) < 104mm without extractor holding screws and eyelets on cover; >106.75mm. with screws and eyelets on cover.
- 2) To simplify the drawing only type 2 extractor has been shown

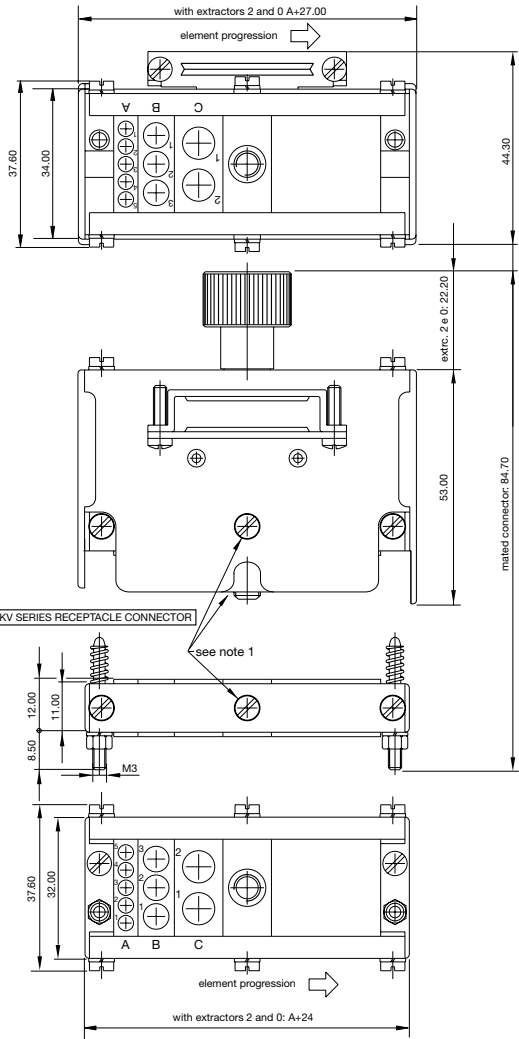
"KV" Series

Application: Cable interface with side clamp

cable clamp	minimum length (A+27.00/A+32.50)
133	49.00
150	65.50
233	95.75
250	
201	131.50

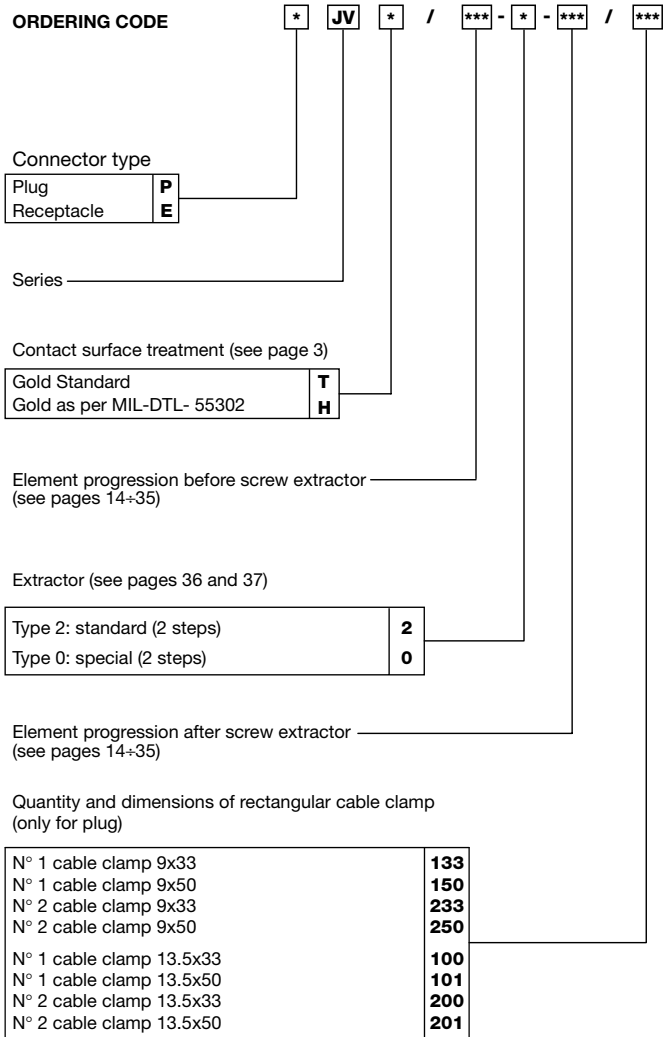


KV SERIES PLUG CONNECTOR



KV SERIES RECEPTACLE CONNECTOR

ORDERING CODE



ex.: PKVT/3Am-2-3Am/250

(JV Series plug with 3 elements type Am, type 2 extractor, 3 elements type Am, two rectangular cable clamps 9x50, contact surface treatment T)

NOTES:

- 1) Type 2 and 0 extractors: Length (size A+27) < 104mm without extractor holding screws and eyelets on cover; > 103.75mm. with screws and eyelets on cover.
- 2) To simplify the drawing only type 2 extractor has been shown.

Application: Cable interface with plastic shell

ORDERING CODE * **V*** * / *** - * - *** / * ** ***

Connector type
 Plug **P**
 Receptacle **E**

Series
 Without coding **V0**
 With coding **V1**

Contact surface treatment (see page 3)
 Gold Standard **T**
 Gold as per MIL-DTL- 55302 **H**

Element progression before screw extractor (see pages 14+35)
 Extractor (see pages 36 and 37)
 Type 2: standard (2 steps) **2**
 Type 0: special (2 steps) **0**

Element progression after screw extractor (see pages 14+35)

Standard lengths (sizes shown are those of covers)

	PROGRESSION (in steps: 1 step = 5.50mm.)		
	extr. 2 or 0		
84.20 mm.	5-2-5	a	
100.70 mm.	6.5-2-6.5	b	
100.70 mm.	7-2-6	c	
111.70 mm.	8-2-7	d	
128.20 mm.	9-2-9	e	
139.20 mm.	10-2-10	f	

Quantity and size of cable clamp (only for plug)

n°1 standard adjustable cable clamp	10
n°2 standard adjustable cable clamps	20
n°1 3/4"GAS cable clamp	11
n°2 3/4"GAS cable clamps	21
n°1 1"GAS cable clamp	12
n°2 1"GAS cable clamps	22

V1 Series: Coding _____
 Leave blank if standard F6 coding is required

ex.: PV1T/5Am-2-5Am/a10B4

Series V1 plug receptacle (with coding), 5 elements type Am, type 2 extractor, 5 elements type Am, length a (84.20mm.), one adjustable cable clamp, contact surface treatment T, B4 coding.

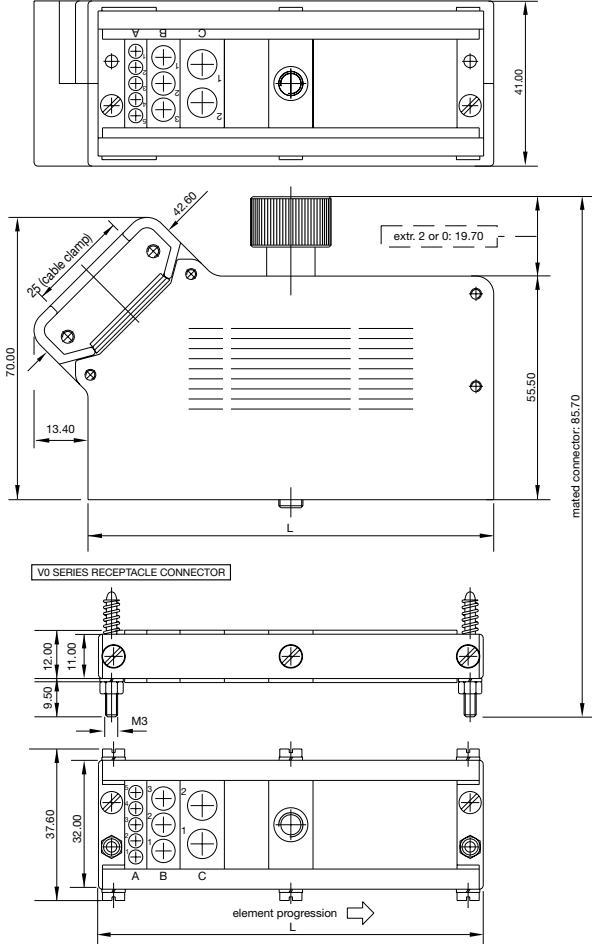
"V" Series

V0 SERIES PLUG CONNECTOR

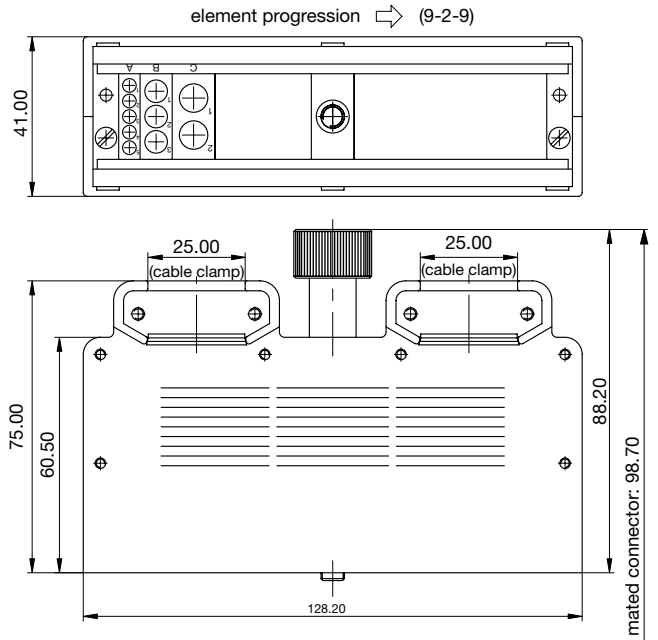
Length indication	Size L	Progression extr. 2 or 0
a	84.20	5-2-5
b	100.70	6.5-2-6.5
c	100.70	7-2-6
d	111.70	8-2-7
e	128.20	9-2-9
f	139.20	10-2-10

V0 SERIES RECEPTACLE CONNECTOR

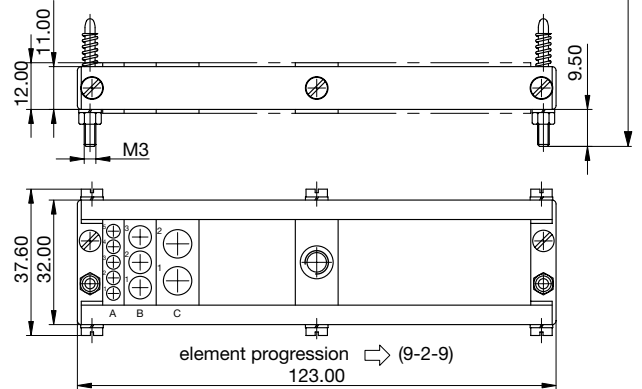
Length indication	Size L	Progression extr. 2 or 0
a	79.00	5-2-5
b	95.50	6.5-2-6.5
c	95.50	7-2-6
d	106.50	8-2-7
e	123.00	9-2-9
f	134.00	10-2-10



V0 SERIES PLUG CONNECTOR

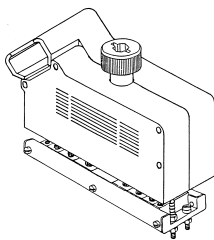


V0 SERIES RECEPTACLE CONNECTOR



NOTES:

- 1) The progression is meant as number of steps (1 step= 5.50mm.).
- 2) Only type 2 extractor can be mounted.



NOTES:

- 1) The progression is meant as number of steps (1 step= 5.50mm.)
- 2) Connectors with lengths "a-b-c" are supplied without screws or gloves for holding extractor.
- 3) As an example, only connector length "b" with extractor type 2 is shown

"V" Series

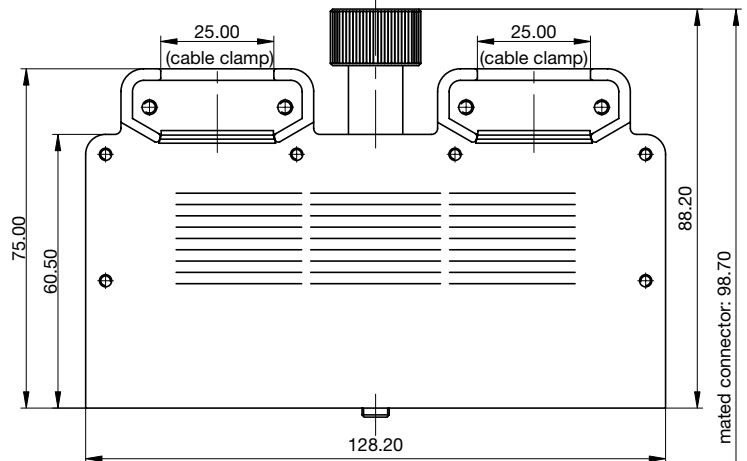
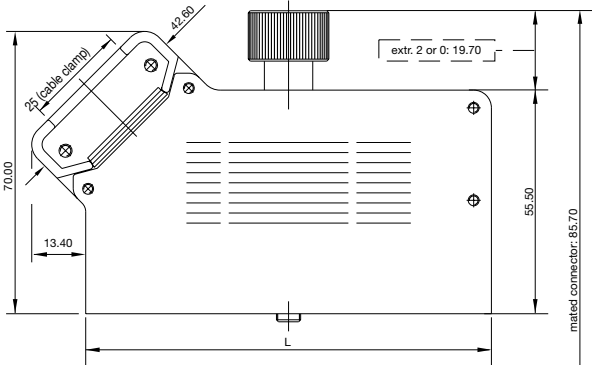
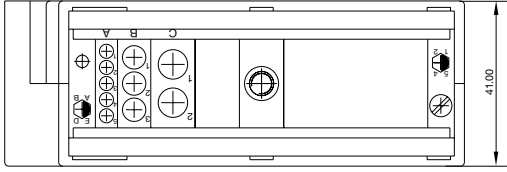
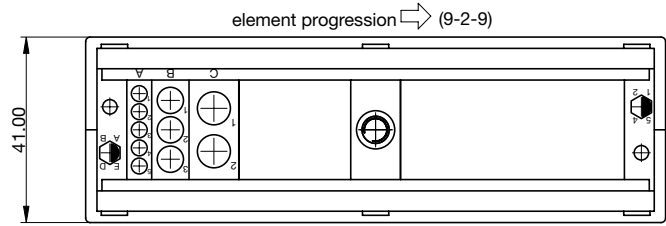
V1 SERIES PLUG CONNECTOR

Length indication	Size L	Progression extr. 2 or 0
a	84.20	5-2-5
b	100.70	6.5-2-6.5
c	100.70	7-2-6
d	111.70	8-2-7
e	128.20	9-2-9
f	139.20	10-2-10

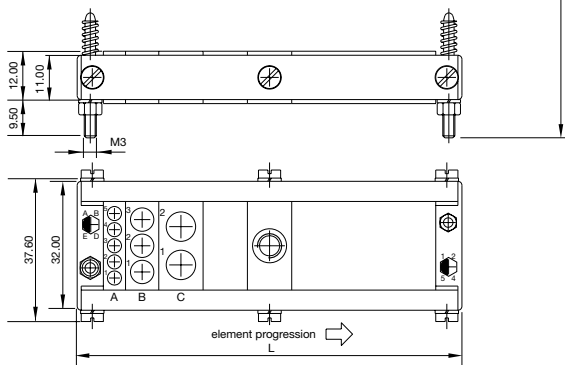
V1 SERIES RECEPTACLE CONNECTOR

Length indication	Size L	Progression extr. 2 or 0
a	79.00	5-2-5
b	95.50	6.5-2-6.5
c	95.50	7-2-6
d	106.50	8-2-7
e	123.00	9-2-9
f	134.00	10-2-10

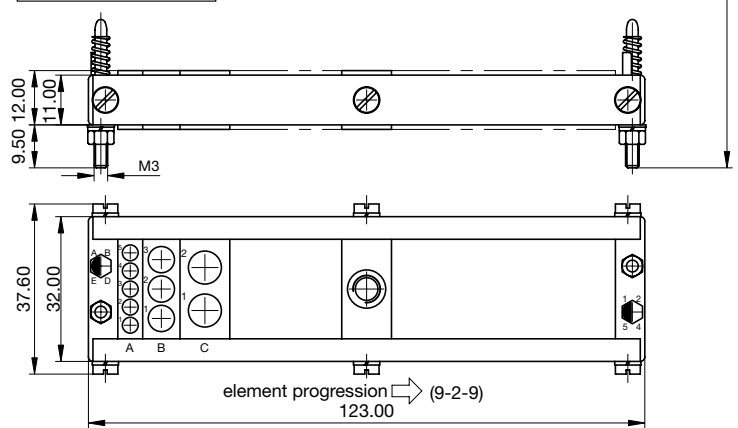
V1 SERIES PLUG CONNECTOR



V1 SERIES RECEPTACLE CONNECTOR



V1 SERIES PLUG CONNECTOR



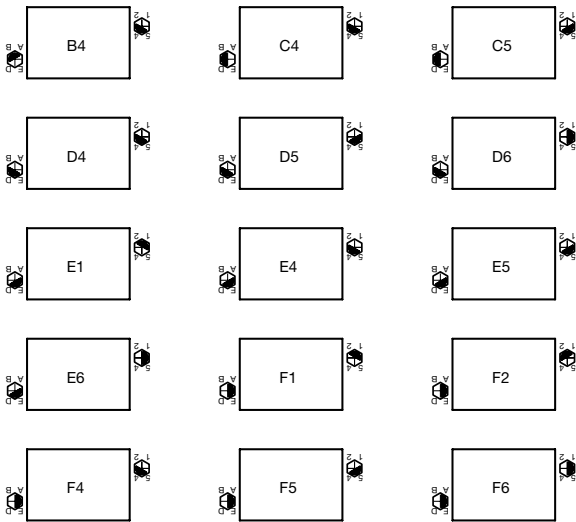
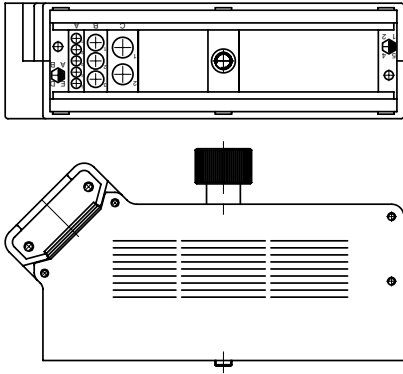
NOTES:

- 1) The progression is meant as number of steps (1 step= 5.50mm.)
- 2) Connectors with lengths "a-b-c" are supplied without screws or gloves for holding extractor.
- 3) The connectors, except when otherwise requested, are supplied with F6 coding
- 4) As an example, only connector length "b" with extractor type 2 is shown

NOTES:

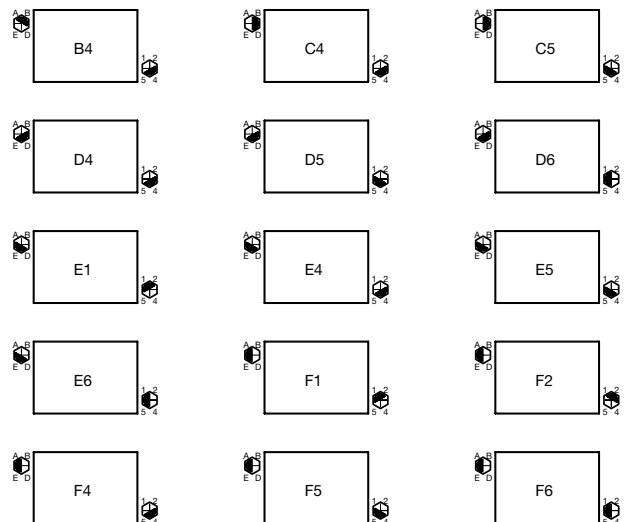
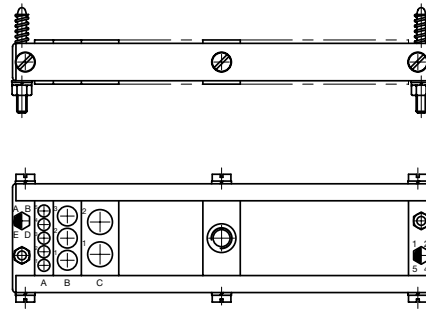
- 1) The progression is meant as number of steps (1 step=5.50 mm)
- 2) Only extractor type 2 can be mounted.
- 3) The connectors, unless otherwise requested, are supplied with F6 coding

"V1" SERIES CONNECTOR: PLUG CODING SCHEME



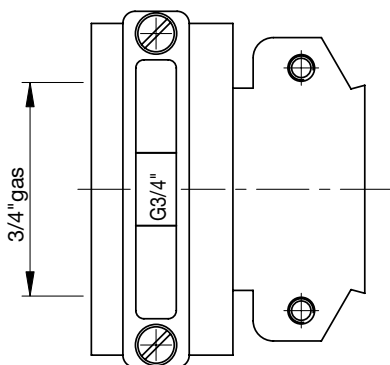
- N° 36 possible options of which 15 only are recommended (see above)
 The remaining 21 options (A1-A2-A3-A4-A5-A6-B1-B2-B3-B5-B6-C1-C2-C3-C6-D1-D2-D3-E2-E3-F3) do not codify the connector.
 - As an example, only the plug connector with one cable clamp is shown.

"V1": SERIES CONNECTOR: RECEPTACLE CODING SCHEME

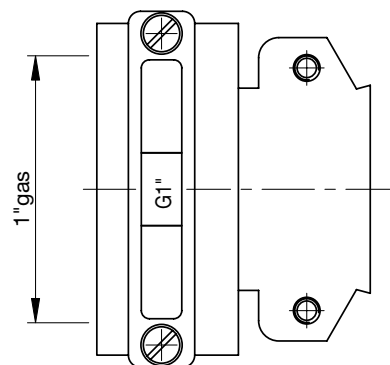


- N° 36 possible options of which 15 only are recommended (see above)
 The remaining 21 options (A1-A2-A3-A4-A5-A6-B1-B2-B3-B5-B6-C1-C2-C3-C6-D1-D2-D3-E2-E3-F3) do not codify the connector.

GAS CABLE CLAMPS



TYPE 1 CABLE CLAMP

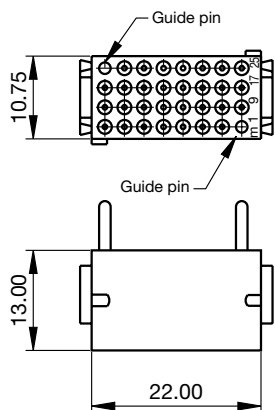


TYPE 2 CABLE CLAMP

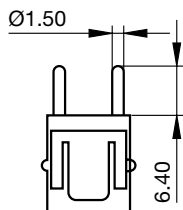
Type "LW" element (ø 0.60 removable contacts-clip)

2 STEPS: 11mm.

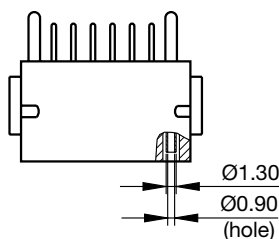
(assembly with spacer clips)



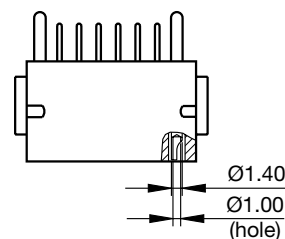
INSULATING BLOCK: **Ref. LWMHT**



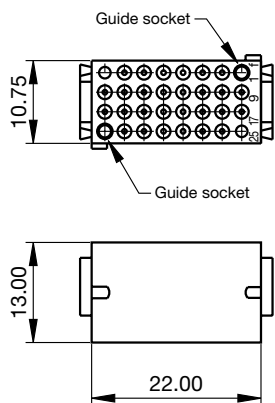
Ref. LWMR
(AWG 28÷22)



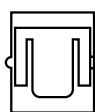
Ref. LWMS
(AWG 22)



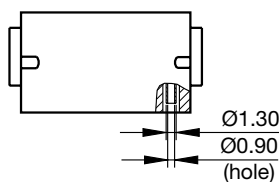
CONTACTS ARE SUPPLIED NOT ASSEMBLED



INSULATING BLOCK: **Ref. LWFHT**



Ref. LWFR
(AWG 28÷22)



Ref. LWFS
(AWG 22)

CONTACTS ARE SUPPLIED NOT ASSEMBLED

General specification

Contact Retention ¹⁾	>25 N
Mating & Unmating Force (Module) ²⁾	<25 N
Weight (M/F)	9.2/13.2 g
Contact Resistance (1mA) ³⁾	<5 mΩ
Current Rating (25°C) ⁶⁾	4 A
Current rating at 95°C	3 A
UL Rating	-
Dielectric Withstanding Voltage ⁴⁾	
- Cont/ Cont	1650 V r.m.s.
- Cont/Hardware	1650 V r.m.s.
Insulation Resistance (500 V d. c.) ⁵⁾	
- Cont/ Cont	>10 ⁶ MΩ
- Cont/Hardware	>10 ⁹ MΩ
Insulator's Material	PPS

Accessories/spare contact ref.

Insertion Tool	S/MONT/1/0060
Extraction Tool	S/DEM/6/0060
Crimping Tool	AFM8
Positioner	S/S/1/0060
Spare contact Pin Ref.	12548 ref. LWMR 12550 ref. LWMS
Spare contact Socket Ref.	12512 ref. LWFR 12514 ref. LWFS

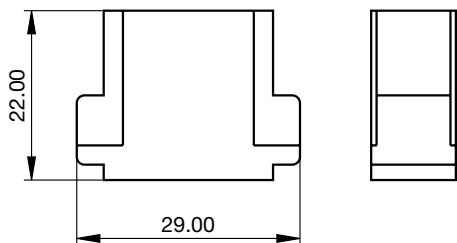
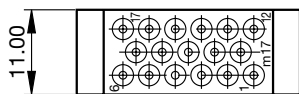
1) ref. MIL -STD-1344 Method 2007
2) ref. MIL -STD-1344 Method 2013.1
3) ref. MIL -STD-1344 Method 2004
4) ref. MIL -STD-1344 Method 3001.1
5) ref. MIL -STD-1344 Method 3003.1
6) ref. I.E.C. 512-3 Test 5b (tr= 125°C/10xSQR (125-T))

For spare parts ordering codes: consult factory

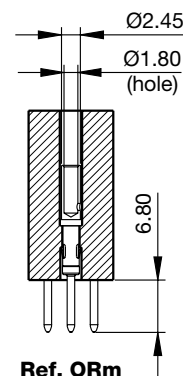
Type "O" element (Ø1.00 removable contacts-clip)

2 STEPS: 11mm.

(assembly without spacer clips)

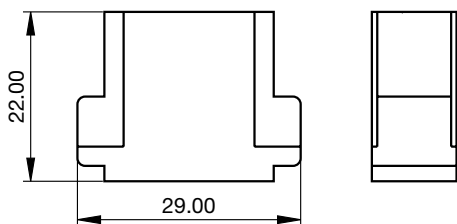
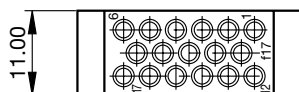


INSULATING BLOCK: **Ref. ORm**

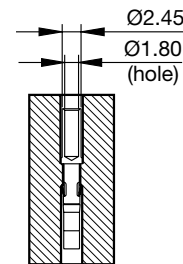


Ref. ORm
(AWG20±16)

CONTACTS ARE SUPPLIED NOT ASSEMBLED



INSULATING BLOCK: **Ref. ORf**



Ref. ORf
(AWG20±16)

CONTACTS ARE SUPPLIED NOT ASSEMBLED

General specification

Contact Retention ¹⁾	>70 N
Mating & Unmating Force (Module) ²⁾	<19 N
Weight (M/F)	9.0/13 g
Contact Resistance (1mA) ³⁾	<2.5 mΩ
Current Rating (25°C) ⁶⁾	9 A
Current rating at 95°C	5 A
UL Rating	8 A
Dielectric Withstanding Voltage ⁴⁾	
- Cont/ Cont	1800 V r.m.s.
- Cont/Hardware	1800 V r.m.s.
Insulation Resistance (500 V d. c.) ⁵⁾	
- Cont/ Cont	>10 ⁶ MΩ
- Cont/Hardware	>10 ⁶ MΩ
Insulator's Material	Nylon

Accessories/spare contact ref.

Insertion Tool	Non Necessary
Extraction Tool	20652
Crimping Tool	AF8
Positioner	21765
Spare contact Pin Ref.	21868 ref. ORm
Spare contact Socket Ref.	21547 ref. ORf

1) ref. MIL -STD-1344 Method 2007
2) ref. MIL -STD-1344 Method 2013.1
3) ref. MIL -STD-1344 Method 2004

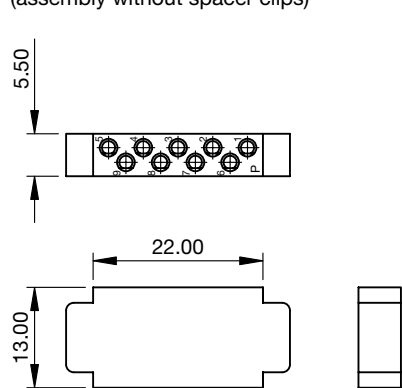
4) ref. MIL -STD-1344 Method 3001.1
5) ref. MIL -STD-1344 Method 3003.1
6) ref. I.E.C. 512-3 Test 5b (I_T= I_{25°C}/10xSQRT (125-T))

For spare parts ordering codes: consult factory

Type "Q" element (ø 1.00 contacts)

1 STEP: 5.50mm.

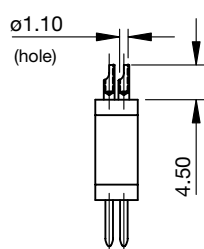
(assembly without spacer clips)



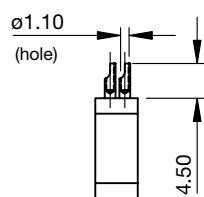
INSULATING BLOCK: **Ref. QHP**

NOTES:

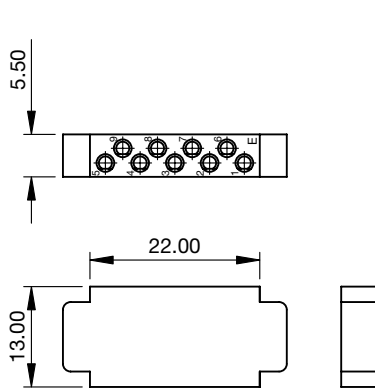
- The codes are for elements mounted on plug connectors.
- For spare elements the code must be followed by the letter P ex. QHP, QmP, QfP



Ref. Qm



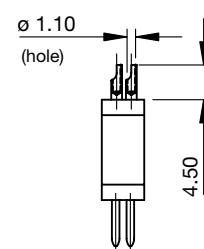
Ref. Qf



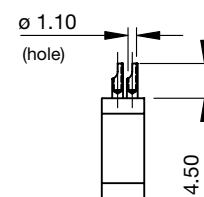
INSULATING BLOCK: **Ref. QHE**

NOTES:

- The codes are for elements mounted on receptacle connectors.
- For spare elements the code must be followed by the letter E ex. QHE, QmE, QfE



Ref. Qm



Ref. Qf

General specification

Contact Retention ¹⁾	>70 N
Mating & Unmating Force (Module) ²⁾	<15 N
Weight (M/F)	5.2/6.2 g
Contact Resistance (1mA) ³⁾	<2.5 mΩ
Current Rating (25°C) ⁶⁾	9 A
Current rating at 95°C	5 A
UL Rating	8 A
Dielectric Withstanding Voltage ⁴⁾	
- Cont/ Cont	2000 V r.m.s.
- Cont/Hardware	1500 V r.m.s.
Insulation Resistance (500 V d. c.) ⁵⁾	
- Cont/ Cont	>10 ⁶ MΩ
- Cont/Hardware	>10 ⁶ MΩ
Insulator's Material	DAP

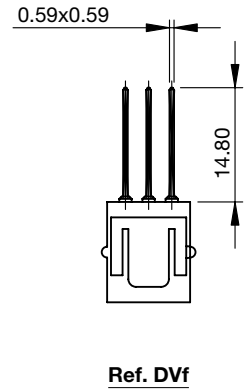
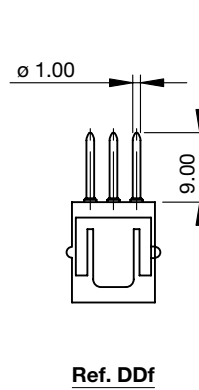
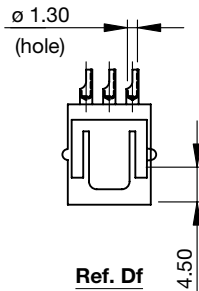
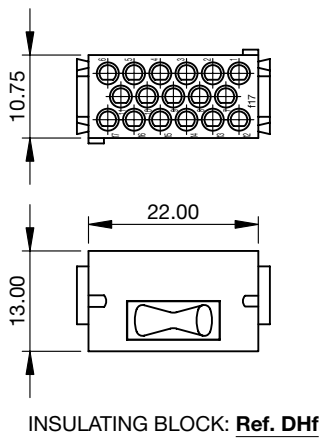
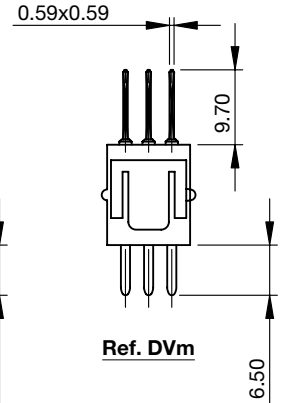
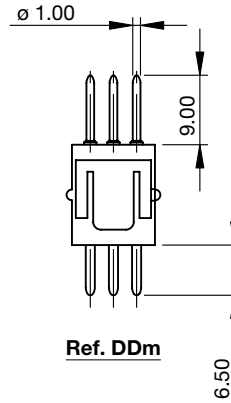
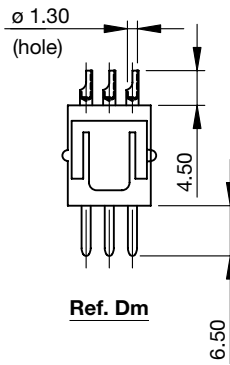
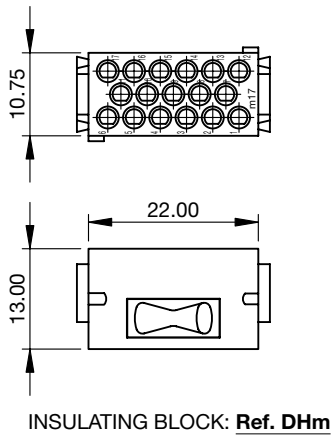
1) ref. MIL -STD-1344 Method 2007
2) ref. MIL -STD-1344 Method 2013.1
3) ref. MIL -STD-1344 Method 2004

4) ref. MIL -STD-1344 Method 3001.1
5) ref. MIL -STD-1344 Method 3003.1
6) ref. I.E.C. 512-3 Test 5b (Tr= 125°C/10xSQR (125-T))

Type "D" element (ø 1.20 contacts)

2 STEPS: 11.00mm.

(assembly with spacer clips)



General specification

Contact Retention ¹⁾	>70 N
Mating & Unmating Force (Module) ²⁾	<19 N
Weight (M/F)	9.0/13 g
Contact Resistance (1mA) ³⁾	<2.5 mΩ
Current Rating (25°C) ⁶⁾	9 A
Current rating at 95°C	5 A
UL Rating	8 A
Dielectric Withstanding Voltage ⁴⁾	
- Cont/ Cont	1800 V r.m.s.
- Cont/Hardware	1800 V r.m.s.
Insulation Resistance (500 V d. c.) ⁵⁾	
- Cont/ Cont	>10 ⁶ MΩ
- Cont/Hardware	>10 ⁶ MΩ
Insulator's Material	DAP

1) ref. MIL -STD-1344 Method 2007
2) ref. MIL -STD-1344 Method 2013.1
3) ref. MIL -STD-1344 Method 2004

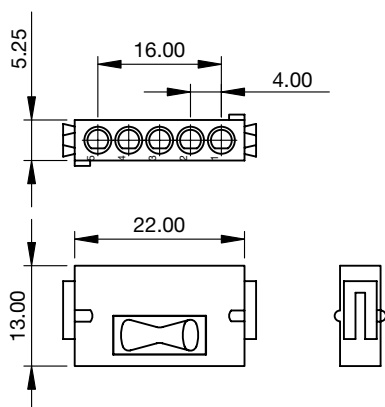
4) ref. MIL -STD-1344 Method 3001.1
5) ref. MIL -STD-1344 Method 3003.1
6) ref. I.E.C. 512-3 Test 5b (I_{tr}= I_{25°C}/10xSQRT (125-T))

For spare parts ordering codes: consult factory

Type "A" element (ø 1.50 contacts)

1 STEP: 5.50mm.

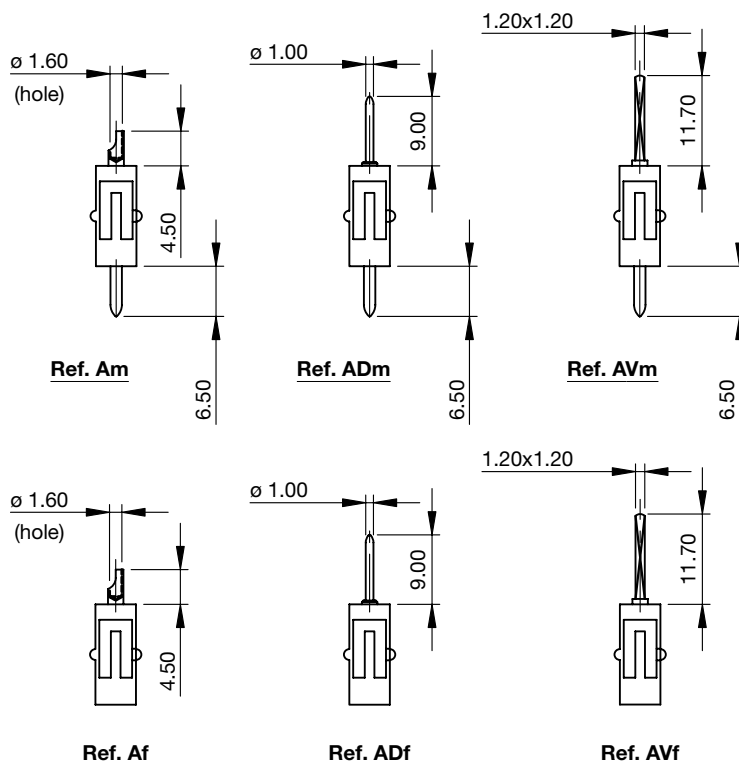
(assembly with spacer clips)



INSULATING BLOCK: **Ref. AH**

NOTE:

-The connector can be polarized ordering an element equipped with 5 plastic fitting: **Ref. AHQ**



General specification

Contact Retention ¹⁾	>70 N
Mating & Unmating Force (Module) ²⁾	<7.5 N
Weight (M/F)	6.2/4.3 g
Contact Resistance (1mA) ³⁾	<2.5 mΩ
Current Rating (25°C) ⁶⁾	20 A
Current rating at 95°C	11 A
UL Rating	8 A
Dielectric Withstanding Voltage ⁴⁾	
- Cont/ Cont	2000 V r.m.s.
- Cont/Hardware	2000 V r.m.s.
Insulation Resistance (500 V d. c.) ⁵⁾	
- Cont/ Cont	>10 ⁶ MΩ
- Cont/Hardware	>10 ⁶ MΩ
Insulator's Material	DAP

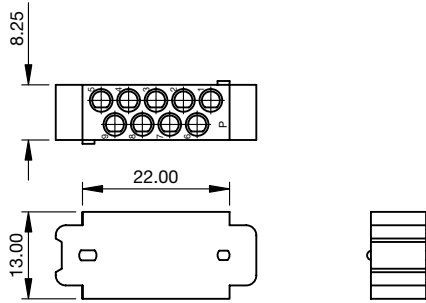
1) ref. MIL-STD-1344 Method 2007
2) ref. MIL-STD-1344 Method 2013.1
3) ref. MIL-STD-1344 Method 2004

4) ref. MIL-STD-1344 Method 3001.1
5) ref. MIL-STD-1344 Method 3003.1
6) ref. I.E.C. 512-3 Test 5b (tr=125°C/10xSQR (125-T))

Type "G" element (ø 1.50 contacts)

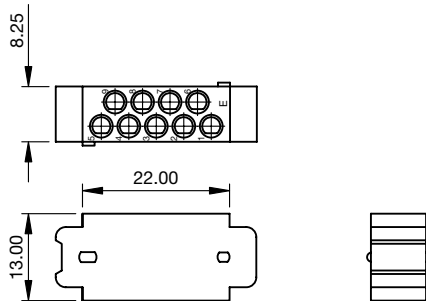
1.5 STEPS: 8.25mm.

(assembly without spacer clips)



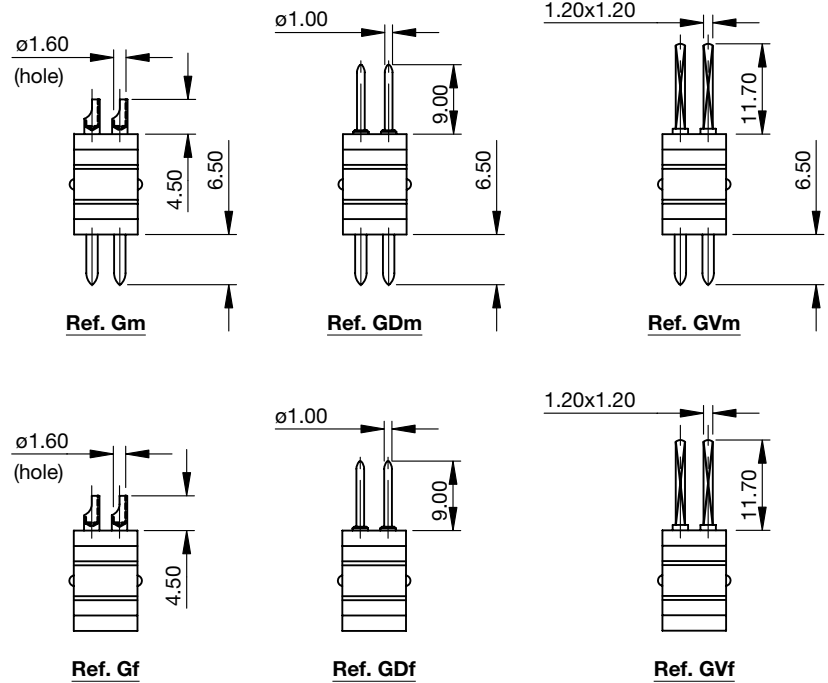
INSULATING BLOCK: **Ref. GHP**

For elements mounted on plug connectors



INSULATING BLOCK: **Ref. GHE**

For elements mounted on receptacle connectors



NOTES:

- The codes are for elements mounted on connectors.
- For spare elements the code must be followed by the letter P (for plug connectors) ex. GHP, GHQP, GmP, GfP, etc. E (for receptacle connectors) ex. GHE, GHQE, GmE, GfE, etc.
- The connector can be polarized ordering an element equipped with 9 plastic fittings: **Ref. GHQ**

General specification

Contact Retention ¹⁾	>70 N
Mating & Unmating Force (Module) ²⁾	<15 N
Weight (M/F)	12.2/8.9 g
Contact Resistance (1mA) ³⁾	<2.5 mΩ
Current Rating (25°C) ⁶⁾	15 A
Current rating at 95°C	8 A
UL Rating	8 A
Dielectric Withstanding Voltage ⁴⁾	
- Cont/ Cont	2000 V r.m.s.
- Cont/Hardware	1500 V r.m.s.
Insulation Resistance (500 V d. c.) ⁵⁾	
- Cont/ Cont	>10 ⁶ MΩ
- Cont/Hardware	>10 ⁶ MΩ
Insulator's Material	DAP

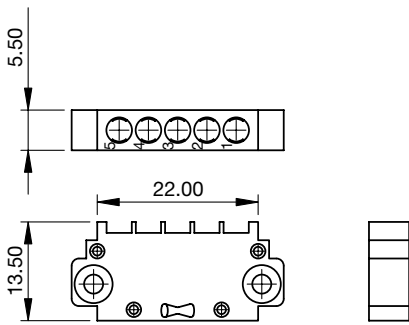
1) ref. MIL -STD-1344 Method 2007
2) ref. MIL -STD-1344 Method 2013.1
3) ref. MIL -STD-1344 Method 2004

4) ref. MIL -STD-1344 Method 3001.1
5) ref. MIL -STD-1344 Method 3003.1
6) ref. I.E.C. 512-3 Test 5b (tr= 1.25°C/10xSQRT (125-T))

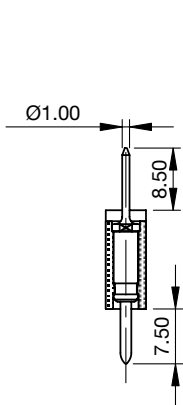
Type "X/X1" element (ø 1.50 removable contacts-cloc)

1 STEP: 5.50mm.

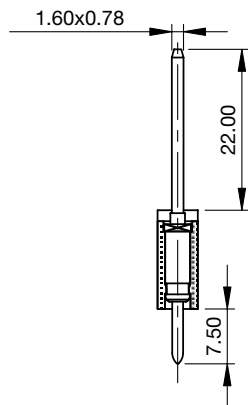
(assembly without spacer clips)



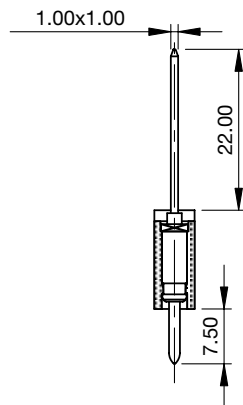
INSULATING BLOCK: **Ref. XH**



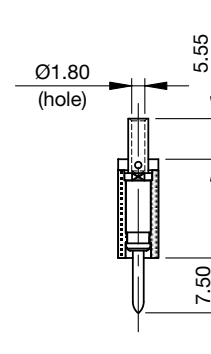
Ref. XDm



Ref. XTm

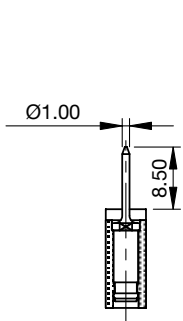


Ref. XVm

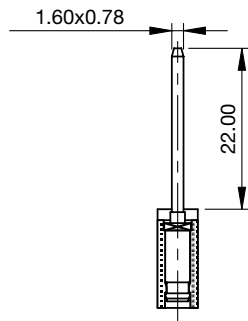


Ref. XRm (AWG 16÷20)

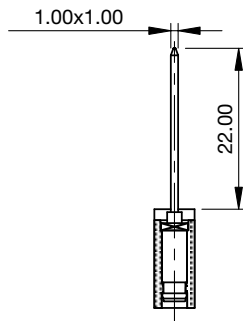
(contacts are supplied not assembled)



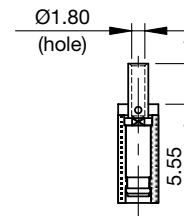
Ref. XDf



Ref. XTf

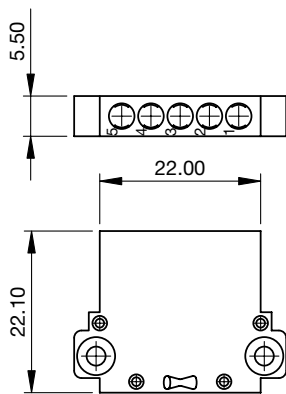


Ref. XVf

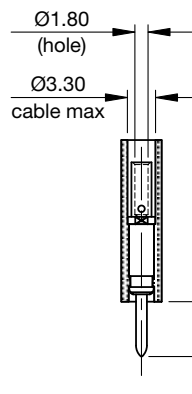


Ref. XRf (AWG 16÷20)

(contacts are supplied not assembled)

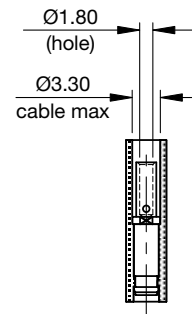


INSULATING BLOCK: **Ref. XH1**



Ref. XLm (AWG 16÷20)

(contacts are supplied not assembled)



Ref. XLf (AWG 16÷20)

(contacts are supplied not assembled)

For spare parts ordering codes: consult factory

General specification

Contact Retention ¹⁾	>40 N
Mating & Unmating Force (Module) ²⁾	<7.5 N
Weight (M/F)	6.4/4.6 g
Contact Resistance (1mA) ³⁾	<2.5 mΩ
Current Rating (25°C) ⁶⁾	15 A
Current rating at 95°C	8 A
UL Rating	8 A
Dielectric Withstanding Voltage ⁴⁾	
- Cont/ Cont	1600 V r.m.s.
- Cont/Hardware	1600 V r.m.s.
Insulation Resistance (500 V d. c.) ⁵⁾	
- Cont/ Cont	>10 ⁶ MΩ
- Cont/Hardware	>10 ⁶ MΩ
Insulator's Material	Nylon/Polycarbonate

1) ref. MIL -STD-1344 Method 2007
2) ref. MIL -STD-1344 Method 2013.1
3) ref. MIL -STD-1344 Method 2004

4) ref. MIL -STD-1344 Method 3001.1
5) ref. MIL -STD-1344 Method 3003.1
6) ref. I.E.C. 512-3 Test 5b (I_T= I_{25°C}/10xSQRT (125-T))

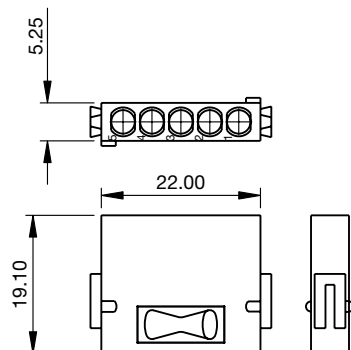
Accessories/spare contact ref.

Insertion Tool	S-0150-01
Extraction Tool	S-0150-01
Crimping Tool	AF8
Positioner	SH463
Spare contact Pin Ref.	16480 ref. XDm 16712 ref. XTm 133-0150 ref. XVm 15947 ref. XRm/XLm
Spare contact Socket Ref.	0150-132 ref. XDf 0150-130 ref. XTf 0150-133 ref. XVf 16813 ref. XRf/XLf

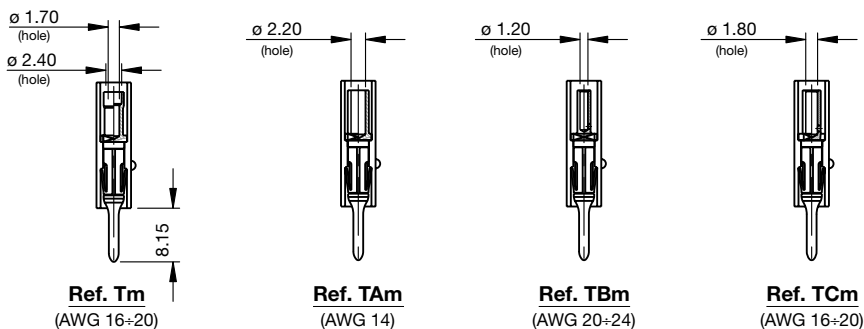
Type "T" element (ø 1.50 removable contacts-clip)

1 STEP: 5.50mm.

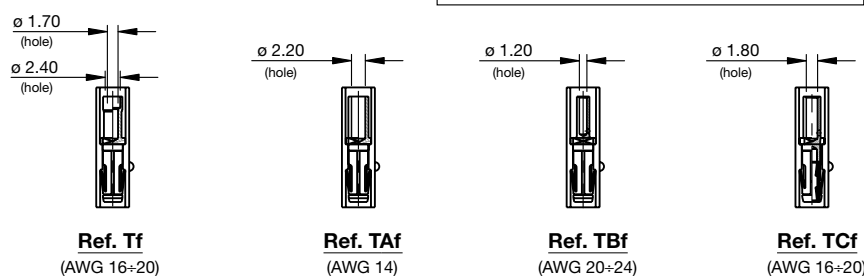
(assembly with spacer clips)



INSULATING BLOCK: **Ref. TH**



CONTACTS ARE SUPPLIED NOT ASSEMBLED



CONTACTS ARE SUPPLIED NOT ASSEMBLED

General specification

Contact Retention ¹⁾	>50 N
Mating & Unmating Force (Module) ²⁾	<17 N
Weight (M/F)	7.4/5.7 g
Contact Resistance (1mA) ³⁾	<2.5 mΩ
Current Rating (25°C) ⁶⁾	20 A
Current rating at 95°C	11 A
UL Rating	8 A
Dielectric Withstanding Voltage ⁴⁾	
- Cont/ Cont	5000 V r.m.s.
- Cont/Hardware	1800 V r.m.s.
Insulation Resistance (500 V d. c.) ⁵⁾	
- Cont/ Cont	>10 ⁹ MΩ
- Cont/Hardware	>10 ⁹ MΩ
Insulator's Material	DAP

Accessories/spare contact ref.

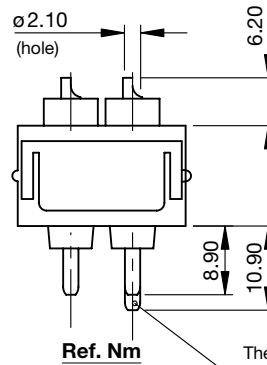
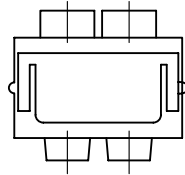
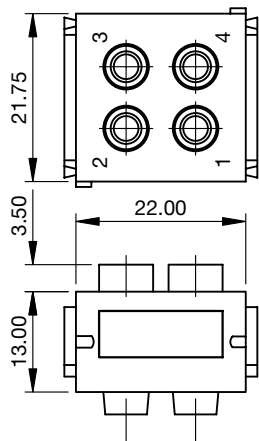
Insertion Tool	Non Necessary
Extraction Tool	15808
Crimping Tool	AF8
Positioner	15807
Spare contact Pin Ref.	15835 ref. Tm 18410 ref. TAm 18747 ref. TBm 19168 ref. TCm
Spare contact Socket Ref.	15837 ref. Tf 18412 ref. TAf 18748 ref. TBf 19171 ref. TCf

1) ref. MIL -STD-1344 Method 2007
2) ref. MIL -STD-1344 Method 2013.1
3) ref. MIL -STD-1344 Method 2004
4) ref. MIL -STD-1344 Method 3001.1
5) ref. MIL -STD-1344 Method 3003.1
6) ref. I.E.C. 512-3 Test 5b (I_r= I_{25°C}/10xSQRT (125-T))

Type "N" element (ø 2.00 contacts)

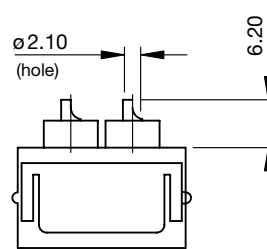
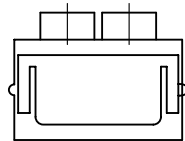
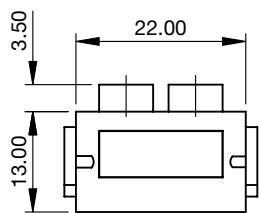
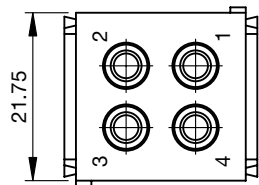
4 STEPS: 22.00mm.

(assembly with spacer clips)



The longer contact (mate first) drawing 13327 are mounted in position 4.

INSULATING BLOCK: **Ref. NHm**



INSULATING BLOCK: **Ref. NHf**

Ref. Nf

General specification

Contact Retention ¹⁾	>70 N
Mating & Unmating Force (Module) ²⁾	<10 N
Weight (M/F)	11.5/9.5 g
Contact Resistance (1mA) ³⁾	<1.5 mΩ
Current Rating (25°C) ⁶⁾	31 A
Current rating at 95°C	17 A
UL Rating	-
Dielectric Withstanding Voltage ⁴⁾	
- Cont/ Cont	4000 V r.m.s.
- Cont/Hardware	4500 V r.m.s.
Insulation Resistance (500 V d. c.) ⁵⁾	
- Cont/ Cont	>10 ⁶ MΩ
- Cont/Hardware	>10 ⁶ MΩ
Insulator's Material	PPS

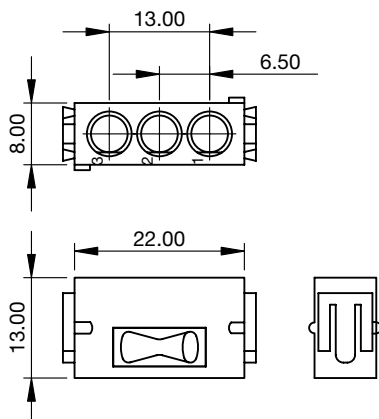
1) ref. MIL -STD-1344 Method 2007
2) ref. MIL -STD-1344 Method 2013.1
3) ref. MIL -STD-1344 Method 2004

4) ref. MIL -STD-1344 Method 3001.1
5) ref. MIL -STD-1344 Method 3003.1
6) ref. I.E.C. 512-3 Test 5b (I_r= I_{25°C}/10xSQR (125-T))

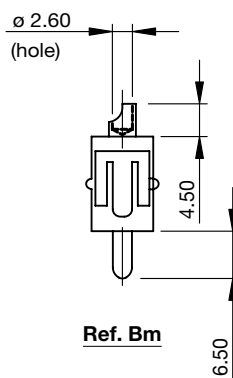
Type "B" element (ø 2.50 contacts)

1.5 STEPS: 8.25mm.

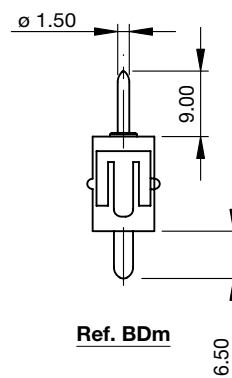
(assembly with spacer clips)



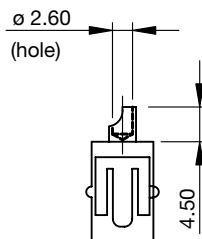
INSULATING BLOCK: **Ref. BH**



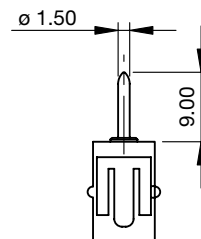
Ref. Bm



Ref. BDm



Ref. Bf



Ref. BDf

General specification

Contact Retention ¹⁾	>70 N
Mating & Unmating Force (Module) ²⁾	<17 N
Weight (M/F)	10.4/7.4 g
Contact Resistance (1mA) ³⁾	<1.0 mΩ
Current Rating (25°C) ⁶⁾	40 A
Current rating at 95°C	22 A
UL Rating	15 A
Dielectric Withstanding Voltage ⁴⁾	
- Cont/ Cont	1600 V r.m.s.
- Cont/Hardware	1600 V r.m.s.
Insulation Resistance (500 V d. c.) ⁵⁾	
- Cont/ Cont	>10 ⁶ MΩ
- Cont/Hardware	>10 ⁶ MΩ
Insulator's Material	DAP

1) ref. MIL -STD-1344 Method 2007

2) ref. MIL -STD-1344 Method 2013.1

3) ref. MIL -STD-1344 Method 2004

4) ref. MIL -STD-1344 Method 3001.1

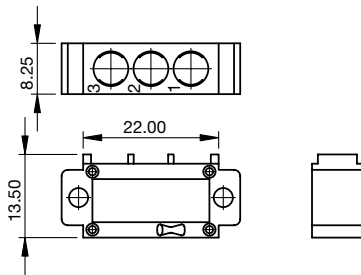
5) ref. MIL -STD-1344 Method 3003.1

6) ref. I.E.C. 512-3 Test 5b (I_r= I_{25°C}/10xSQRT (125-T))

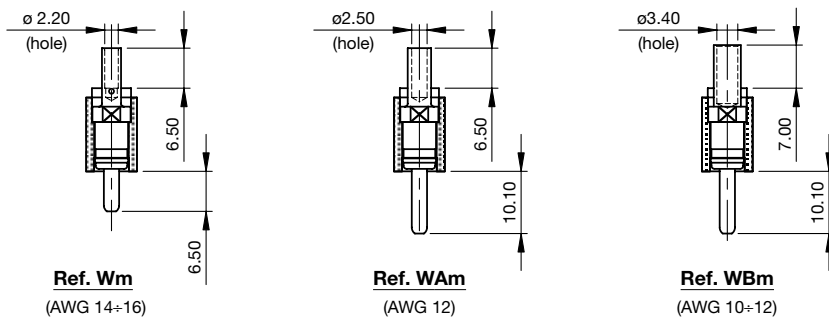
Type "W" element (ø 2.50 removable contacts-cloc)

1.5 STEPS: 8.25mm.

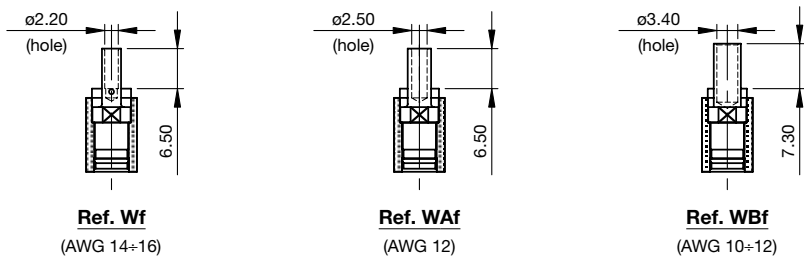
(assembly without spacer clips)



INSULATING BLOCK: **Ref. WH**



CONTACTS ARE SUPPLIED NOT ASSEMBLED



CONTACTS ARE SUPPLIED NOT ASSEMBLED

General specification

Contact Retention ¹⁾	>60 N
Mating & Unmating Force (Module) ²⁾	<7.5 N
Weight (M/F)	6.5/10 g
Contact Resistance (1mA) ³⁾	<1.0 mΩ
Current Rating (25°C) ⁶⁾	35 A
Current rating at 95°C	19 A
UL Rating	15 A
Dielectric Withstanding Voltage ⁴⁾	
- Cont/ Cont	2800 V r.m.s.
- Cont/Hardware	2800 V r.m.s.
Insulation Resistance (500 V d. c.) ⁵⁾	
- Cont/ Cont	>10 ⁶ MΩ
- Cont/Hardware	>10 ⁶ MΩ
Insulator's Material	Nylon

1) ref. MIL -STD-1344 Method 2007
2) ref. MIL -STD-1344 Method 2013.1
3) ref. MIL -STD-1344 Method 2004

4) ref. MIL -STD-1344 Method 3001.1
5) ref. MIL -STD-1344 Method 3003.1
6) ref. I.E.C. 512-3 Test 5b (fr= 125°c/10xSQRT (125-T))

Accessories/spare contact ref.

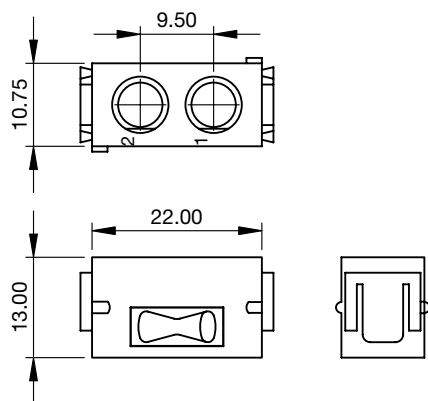
Insertion Tool	S-0250-01
Extraction Tool	S-0250-01
Crimping Tool	FT8
Positioner	SH463
Spare contact Pin Ref.	12318 ref. Wm 17667 ref. WAm 19684 ref. WBm
Spare contact Socket Ref.	16825 ref. Wf 17669 ref. WAf 19683 ref. WBf

For spare parts ordering codes: consult factory

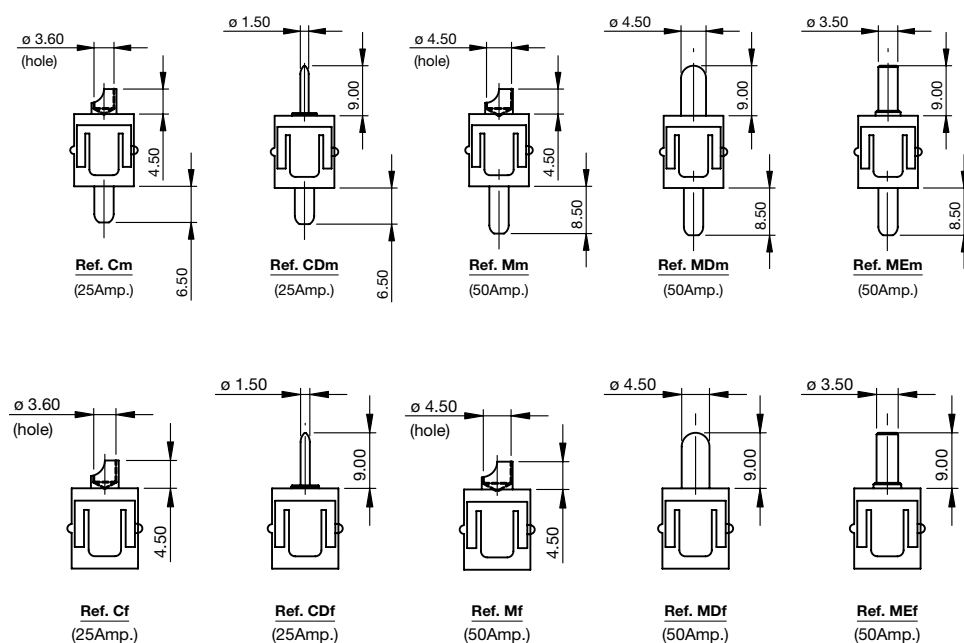
Type "C and M" elements (ø 3.50 contacts)

2 STEPS: 11.00mm.

(assembly with spacer clips)



INSULATING BLOCK: **Ref. CH**



Type "C" element - General specification

Contact Retention ¹⁾	>70 N
Mating & Unmating Force (Module) ²⁾	<17 N
Weight (M/F)	12.2/8.9 g
Contact Resistance (1mA) ³⁾	<0.8 mΩ
Current Rating (25°C) ⁶⁾	57 A
Current rating at 95°C	31 A
UL Rating	25A
Dielectric Withstanding Voltage ⁴⁾	
- Cont/ Cont	2000 V r.m.s.
- Cont/Hardware	2000 V r.m.s.
Insulation Resistance (500 V d. c.) ⁵⁾	
- Cont/ Cont	>10 ⁶ MΩ
- Cont/Hardware	>10 ⁶ MΩ
Insulator's Material	DAP

Type "M" element - General specification

Contact Retention ¹⁾	>70 N
Mating & Unmating Force (Module) ²⁾	<17 N
Weight (M/F)	12/8.9 g
Contact Resistance (1mA) ³⁾	<0.6 mΩ
Current Rating (25°C) ⁶⁾	86 A
Current rating at 95°C	47 A
UL Rating	50 A
Dielectric Withstanding Voltage ⁴⁾	
- Cont/ Cont	2000 V r.m.s.
- Cont/Hardware	2000 V r.m.s.
Insulation Resistance (500 V d. c.) ⁵⁾	
- Cont/ Cont	>10 ⁶ MΩ
- Cont/Hardware	>10 ⁶ MΩ
Insulator's Material	DAP

1) ref. MIL -STD-1344 Method 2007

2) ref. MIL -STD-1344 Method 2013.1

3) ref. MIL -STD-1344 Method 2004

4) ref. MIL -STD-1344 Method 3001.1

5) ref. MIL -STD-1344 Method 3003.1

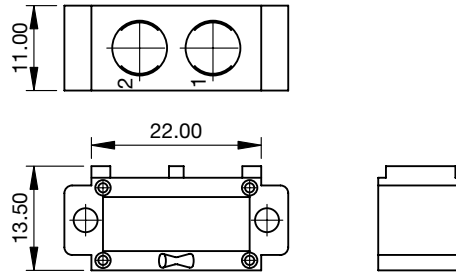
6) ref. I.E.C. 512-3 Test 5b (Tr= 125°C/10xSQR (125-T))

For spare parts ordering codes: consult factory

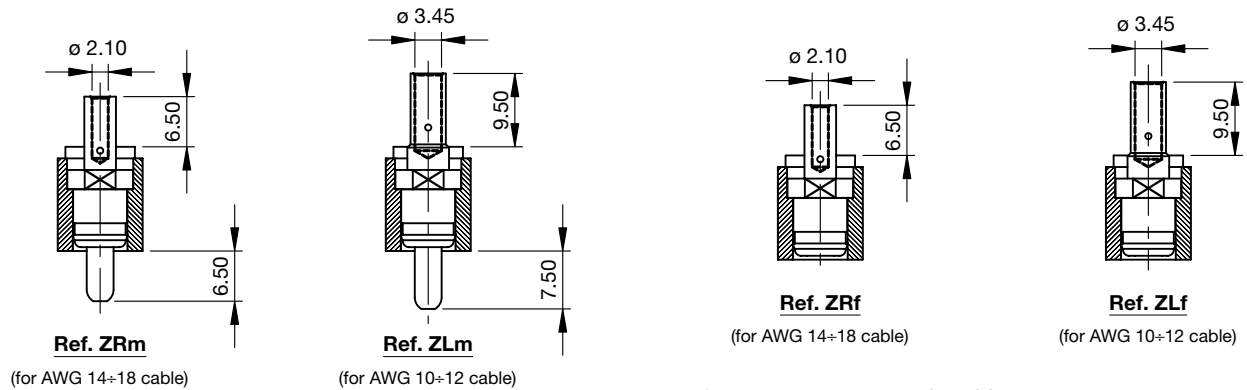
Type "Z" element (ø 3.50 removable contacts-cloc)

2 STEPS: 11.00mm.

(assembly without spacer clips)



INSULATING BLOCK: **Ref. ZH**



Contacts are supplied NOT ASSEMBLED

Contacts are supplied NOT ASSEMBLED

General specification

Contact Retention ¹⁾	>60 N
Mating & Unmating Force (Module) ²⁾	<17 N
Weight (M/F)	12/7.9 g
Contact Resistance (1mA) ³⁾	<0.8 mΩ
Current Rating (25°C) ⁶⁾	37 A
Current rating at 95°C	20 A
UL Rating	25 or 50 A
Dielectric Withstanding Voltage ⁴⁾	
- Cont/ Cont	2800 V r.m.s.
- Cont/Hardware	2800 V r.m.s.
Insulation Resistance (500 V d. c.) ⁵⁾	
- Cont/ Cont	>10 ⁶ MΩ
- Cont/Hardware	>10 ⁶ MΩ
Insulator's Material	Nylon

1) ref. MIL -STD-1344 Method 2007
 2) ref. MIL -STD-1344 Method 2013.1
 3) ref. MIL -STD-1344 Method 2004
 4) ref. MIL -STD-1344 Method 3001.1
 5) ref. MIL -STD-1344 Method 3003.1
 6) ref. I.E.C. 512-3 Test 5b (I_t= I_{25°C}/10xSQRT (125-T))

Accessories/spare contact ref.

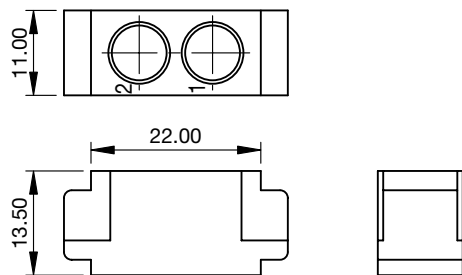
Insertion Tool	S-0350-01
Extraction Tool	S-0350-01
Crimping Tool	M310
Positioner	TP999
Spare contact Pin Ref.	12320 ref. ZRm 16600 ref. ZLm
Spare contact Socket Ref.	16722 ref. ZRf 16601 ref. ZLf

For spare parts ordering codes: consult factory

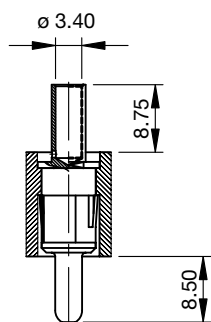
Type "Z" element (ø 3.50 removable contacts-clip)

2 STEPS: 11.00mm.

(assembly without spacer clips)

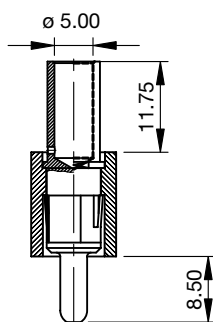


INSULATING BLOCK: **Ref. ZH1**



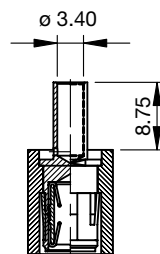
Ref. ZAm

(for AWG 10÷12 cable)



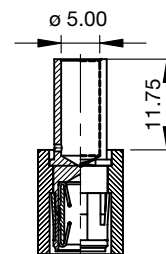
Ref. ZBm

(for 10mm² cable.)



Ref. ZAf

(for AWG 10÷12 cable)



Ref. ZBf

(for 10mm² cable.)

General specification

Contact Retention ¹⁾	>60 N
Mating & Unmating Force (Module) ²⁾	<17 N
Weight (M/F)	12/7.9 g
Contact Resistance (1mA) ³⁾	<0.8 mΩ
Current Rating (25°C) ⁶⁾	37 A
Current rating at 95°C	20 A
UL Rating	25 or 50 A
Dielectric Withstanding Voltage ⁴⁾	
- Cont/ Cont	2800 V r.m.s.
- Cont/Hardware	2800 V r.m.s.
Insulation Resistance (500 V d. c.) ⁵⁾	
- Cont/ Cont	>10 ⁶ MΩ
- Cont/Hardware	>10 ⁶ MΩ
Insulator's Material	Nylon

1) ref. MIL -STD-1344 Method 2007

2) ref. MIL -STD-1344 Method 2013.1

3) ref. MIL -STD-1344 Method 2004

4) ref. MIL -STD-1344 Method 3001.1

5) ref. MIL -STD-1344 Method 3003.1

6) ref. I.E.C. 512-3 Test 5b (I_r= I_{sc}/10xSQRT (125-T))

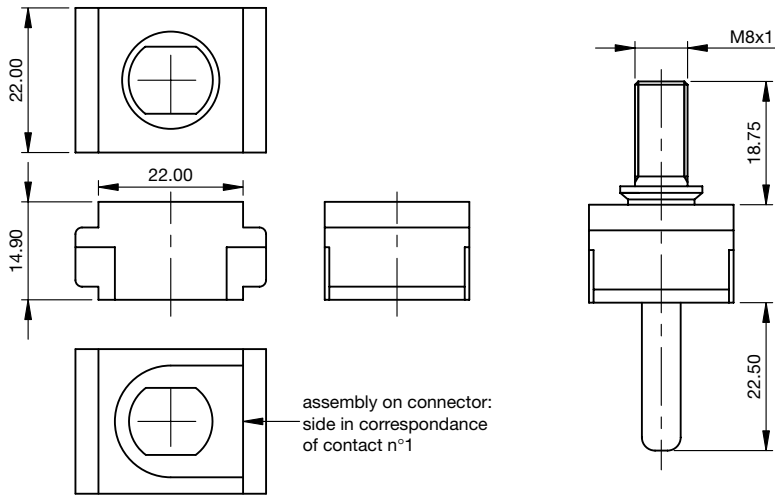
Accessories/spare contact ref.

Insertion Tool	Not Necessary
Extraction Tool	20267
Crimping Tool	M310/WA23
Positioner	TP1290/M0601
Spare contact Pin Ref.	18972 ref. ZAm 19398 ref. ZBm
Spare contact Socket Ref.	16829 ref. ZAf 19395 ref. ZBf

Type "I" element (ø 6.00 contacts)

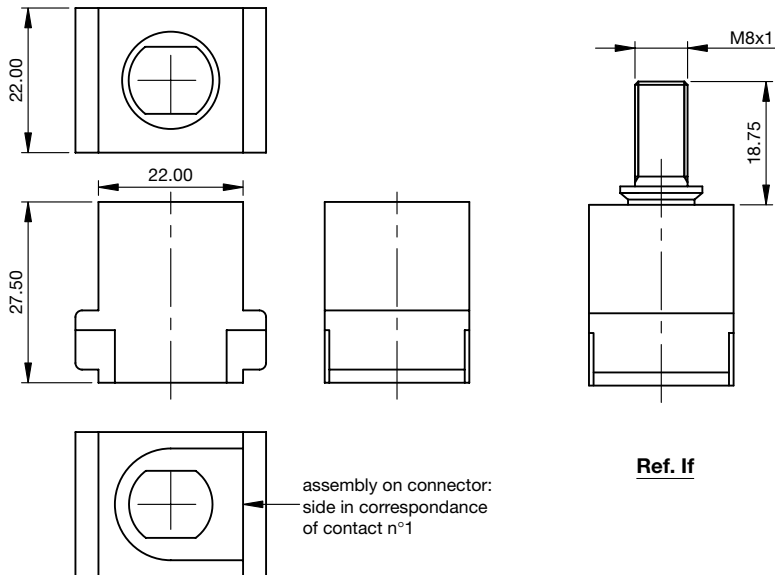
4 STEPS: 22.00mm.

(assembly without spacer clips)



INSULATING BLOCK: **Ref. IHm**

Ref. Im



INSULATING BLOCK: **Ref. IHf**

Ref. If

General specification

Contact Retention ¹⁾	>100 N
Mating & Unmating Force (Module) ²⁾	<20 N
Weight (M/F)	40/50 g
Contact Resistance (1mA) ³⁾	< 0.3 mΩ
Current Rating (25°C) ⁶⁾	200 A
Current rating at 95°C	100 A
UL Rating	-
Dielectric Withstanding Voltage ⁴⁾	
- Cont/ Cont	250 V r.m.s.
- Cont/Hardware	250 V r.m.s.
Insulation Resistance (500 V d. c.) ⁵⁾	
- Cont/ Cont	>10 ⁶ MΩ
- Cont/Hardware	>10 ⁶ MΩ
Insulator's Material	Nylon

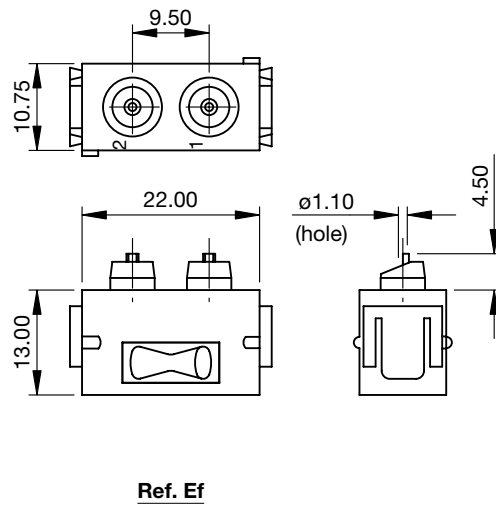
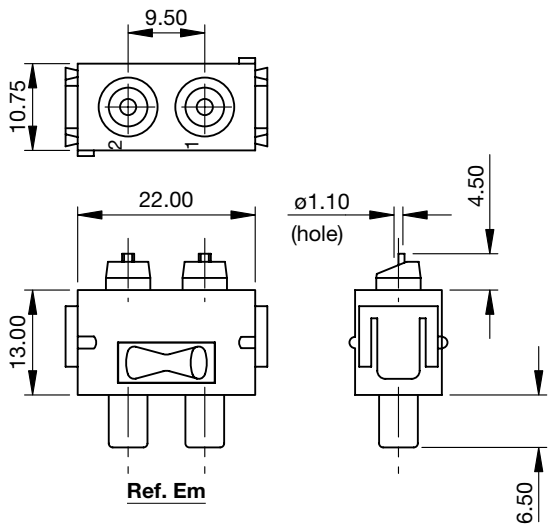
1) ref. MIL -STD-1344 Method 2007
2) ref. MIL -STD-1344 Method 2013.1
3) ref. MIL -STD-1344 Method 2004

4) ref. MIL -STD-1344 Method 3001.1
5) ref. MIL -STD-1344 Method 3003.1
6) ref. I.E.C. 512-3 Test 5b (I_T= I_{25°C}/10xSQRT (125-T))

Type "E" element (shielded contacts)

2 STEPS: 11.00mm.

(assembly with spacer clips)



General specification

Contact Retention ¹⁾	n/a
Mating & Unmating Force (Module) ²⁾	<40 N
Weight (M/F)	15/10.2 g
Contact Resistance (1mA) ³⁾	<4 mΩ (inner), <0.6 mΩ (outer)
Current Rating (25°C) ⁶⁾	9 A
Current rating at 95°C	5 A
UL Rating	-
Dielectric Withstanding Voltage ⁴⁾	
- Cont/ Cont	1300 V r.m.s.
- Cont/Hardware	2500 V r.m.s.
Insulation Resistance (500 V d. c.) ⁵⁾	
- Cont/ Cont	>10 ⁶ MΩ
- Cont/Hardware	>10 ⁶ MΩ
Insulator's Material	DAP

1) ref. MIL -STD-1344 Method 2007

2) ref. MIL -STD-1344 Method 2013.1

3) ref. MIL -STD-1344 Method 2004

4) ref. MIL -STD-1344 Method 3001.1

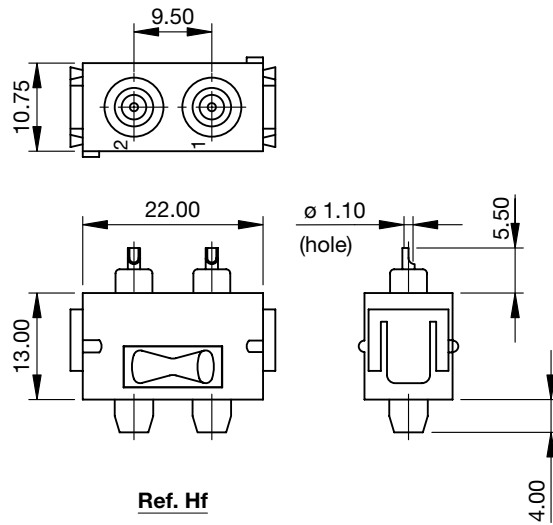
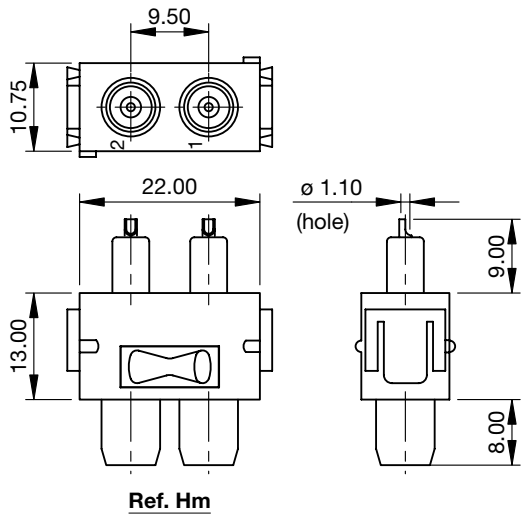
5) ref. MIL -STD-1344 Method 3003.1

6) ref. I.E.C. 512-3 Test 5b (I_r= I_{25°C}/10xSQRT (125-T))

Type "H" element (high voltage contacts)

2 STEPS: 11.00MM.

(assembly with spacer clips)



General specification

Contact Retention ¹⁾	>70 N
Mating & Unmating Force (Module) ²⁾	<20 N
Weight (M/F)	7.4/5.8 g
Contact Resistance (1mA) ³⁾	<3.5 mΩ
Current Rating (25°C) ⁶⁾	9 A
Current rating at 95°C	5 A
UL Rating	-
Dielectric Withstanding Voltage ⁴⁾	
- Cont/ Cont	8000 V r.m.s.
- Cont/Hardware	8000 V r.m.s.
Insulation Resistance (500 V d. c.) ⁵⁾	
- Cont/ Cont	>10 ⁶ MΩ
- Cont/Hardware	>10 ⁶ MΩ
Insulator's Material	DAP

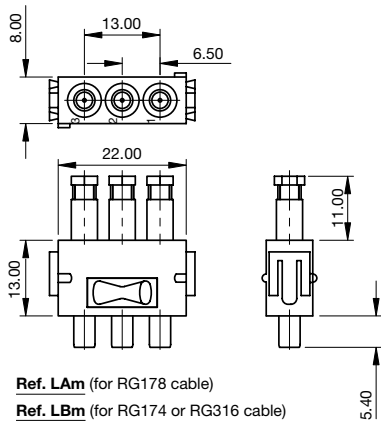
1) ref. MIL -STD-1344 Method 2007
2) ref. MIL -STD-1344 Method 2013.1
3) ref. MIL -STD-1344 Method 2004

4) ref. MIL -STD-1344 Method 3001.1
5) ref. MIL -STD-1344 Method 3003.1
6) ref. I.E.C. 512-3 Test 5b (I_r= I_{25°C}/10xSQRT (125-T))

Type "L" element (coaxial contacts) (consult factory)

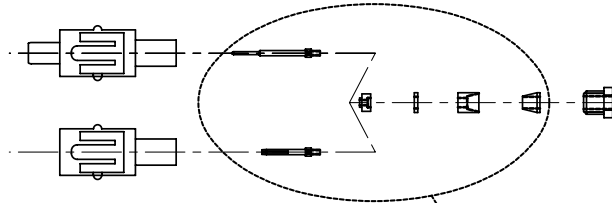
1.5 STEPS: 8,25mm.

(assembly with spacer clips)



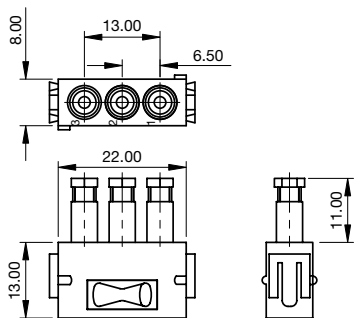
Ref. **LAm** (for RG178 cable)

Ref. **LBm** (for RG174 or RG316 cable)



NOTE:
- Assembly instructions
as per drawing 15073.

Items to be supplied not assembled
in package (ex. nylon bag) for each
single element.



Ref. **LAf** (for RG178 cable)

Ref. **LBf** (for RG174 or RG316 cable)

General specification

Contact Retention ¹⁾	>40 N
Mating & Unmating Force (Module) ²⁾	<20 N
Weight (M/F)	8.9/11 g
Contact Resistance (1mA) ³⁾	<2.5 mΩ
Dielectric Withstanding Voltage ⁴⁾	
- Inner Cont/Outer Cont	1000 V r.m.s.
- Outer Cont/Hardware	1500 V r.m.s.
Insulation Resistance (500 V d. c.) ⁵⁾	
- Inner Cont/Outer Cont	>10 ⁶ MΩ
- Outer Cont/Hardware	>10 ⁶ MΩ
Standing Wave ratio (3.9 GHz) ⁶⁾	<1.1
Impedance	50 Ω
Insulator's Material	DAP

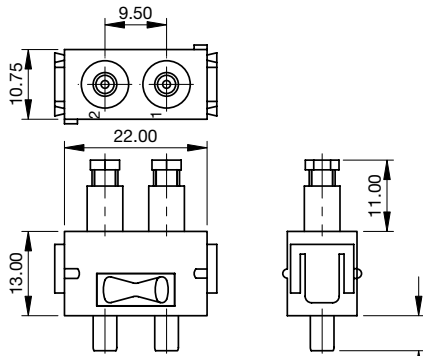
1) ref. MIL -STD-1344 Method 2007
2) ref. MIL -STD-1344 Method 2013.1
3) ref. MIL -STD-1344 Method 2004

4) ref. MIL -STD-1344 Method 3001.1
5) ref. MIL -STD-1344 Method 3003.1
6) ref. MIL -STD-1344 Method 3005

Type "J" element (coaxial contacts)

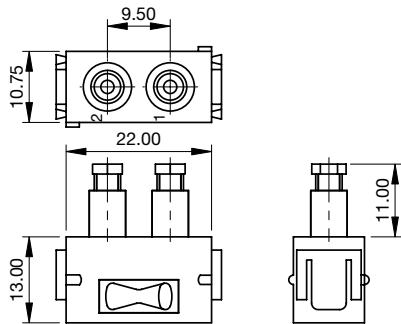
2 STEPS: 11.00mm.

(assembly with spacer clips)



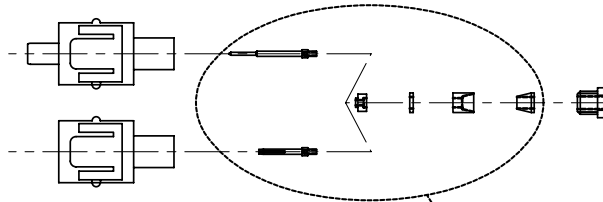
Ref. JAm (for RG178 cable)

Ref. JBm (for RG174 or RG316 cable)



Ref. JAf (for RG178 cable)

Ref. JBf (for RG174 or RG316 cable)



NOTE:

- Assembly instructions as per drawing 15073.

Items to be supplied not assembled in package (ex. nylon bag) for each single element.

General specification

Contact Retention ¹⁾	>70 N
Mating & Unmating Force (Module) ²⁾	<13 N
Weight (M/F)	11.5/12.8 g
Contact Resistance (1mA) ³⁾	<2.5 mΩ
Dielectric Withstanding Voltage ⁴⁾	
- Inner Cont/Outer Cont	1000 V r.m.s.
- Outer Cont/Hardware	1000 V r.m.s.
Insulation Resistance (500 V d. c.) ⁵⁾	
- Inner Cont/Outer Cont	>10 ⁶ MΩ
- Outer Cont/Hardware	>10 ⁶ MΩ
Standing Wave ratio (3.9 GHz) ⁶⁾	<1.1
Impedance	50 Ω
Insulator's Material	DAP

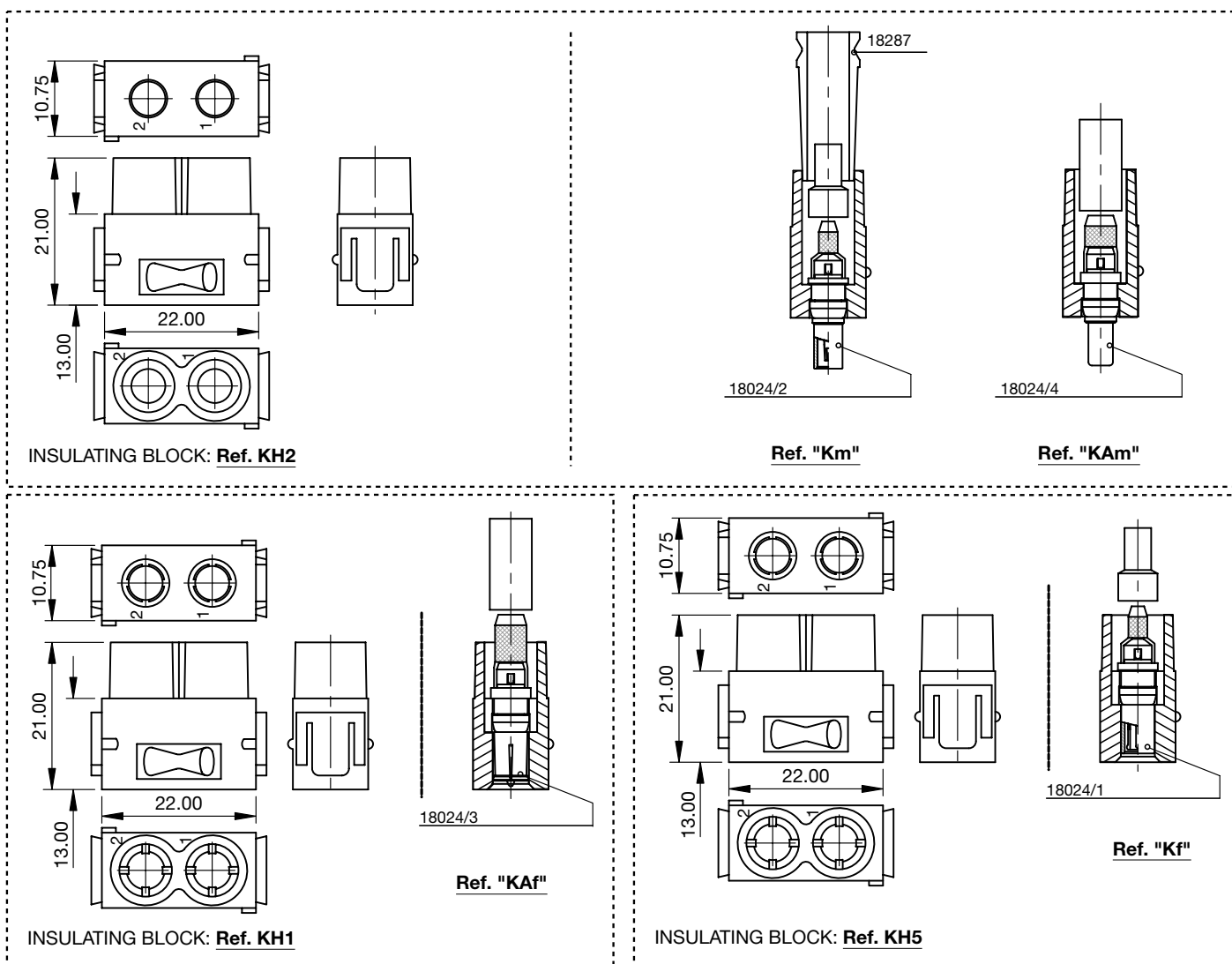
1) ref. MIL-STD-1344 Method 2007
2) ref. MIL-STD-1344 Method 2013.1
3) ref. MIL-STD-1344 Method 2004

4) ref. MIL-STD-1344 Method 3001.1
5) ref. MIL-STD-1344 Method 3003.1
6) ref. MIL-STD-1344 Method 3005

Type "K" element (coaxial contacts)

2 STEPS: 11.00mm.

(assembly with spacer clips)



General specification

Contact Retention ¹⁾	>40 N
Mating & Unmating Force (Module) ²⁾	<15 N
Weight (M/F)	7.0/7.2 g
Contact Resistance (1mA) ³⁾	<5.0 mΩ
Dielectric Withstanding Voltage ⁴⁾	
	- Inner Cont/Outer Cont - Outer Cont/Hardware
Insulation Resistance (500 V d. c.) ⁵⁾	
	- Inner Cont/Outer Cont - Outer Cont/Hardware
Standing Wave ratio (3.9 GHz) ⁶⁾	<1.2
Impedance	50 Ω
Insulator's Material	DAP

1) ref. MIL -STD-1344 Method 2007
2) ref. MIL -STD-1344 Method 2013.1
3) ref. MIL -STD-1344 Method 2004

4) ref. MIL -STD-1344 Method 3001.1
5) ref. MIL -STD-1344 Method 3003.1
6) ref. MIL -STD-1344 Method 3005

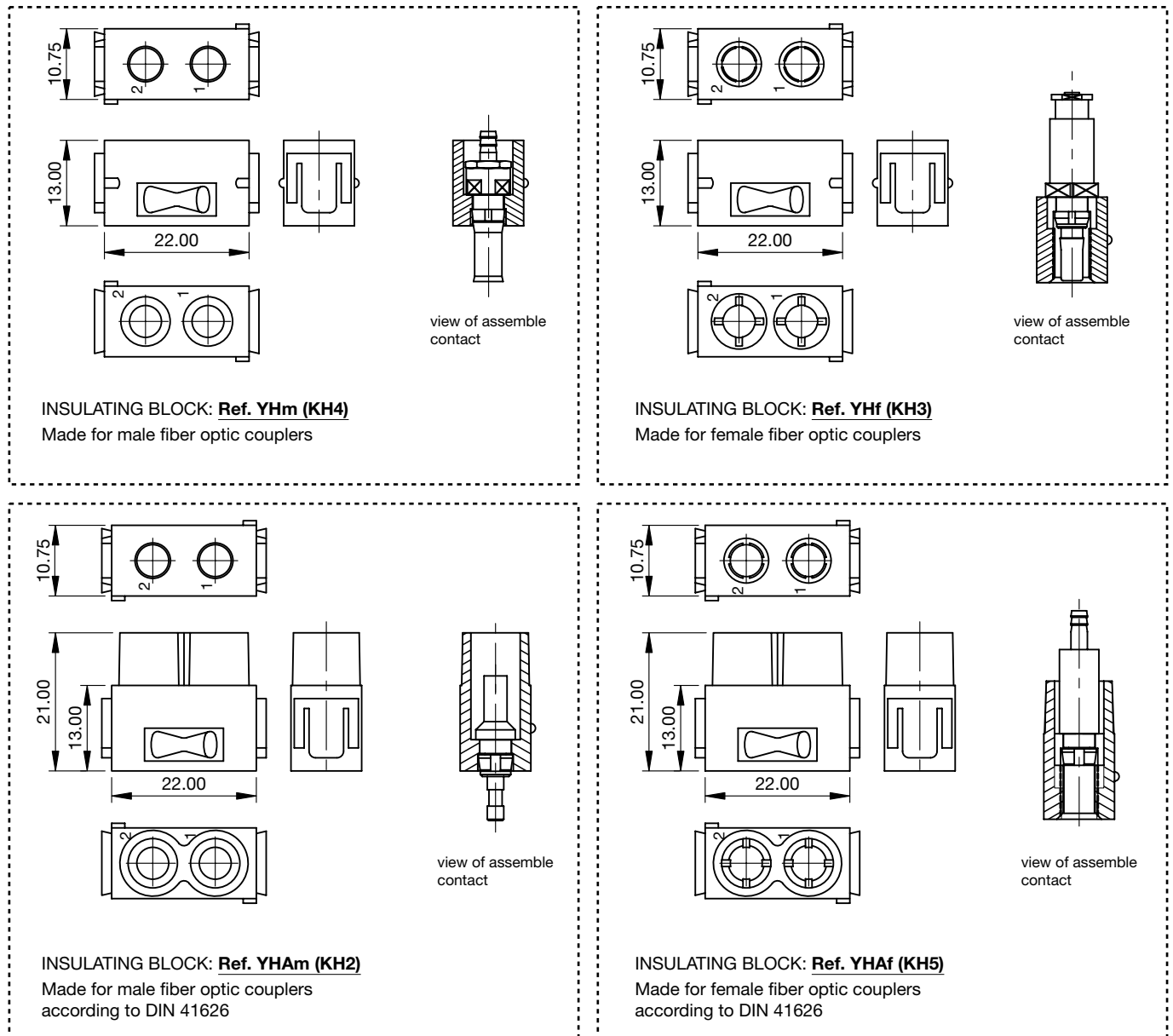
Accessories

Ref.	18024/1	18024/2	18024/3	18024/4
Cable	RG316/RG174	RG316/RG174	RG58	RG58
Crimping tool	M0576	M0576	M0576	M0576
Positioner	M0577	M0577	11W.150.106	11W.150.106
Extraction tool	M0578	M0578	11W.101.000	11W.101.000

Type "Y" element (for fiber optic couplers)

2 STEPS: 11.00mm.

(assembly with spacer clips)

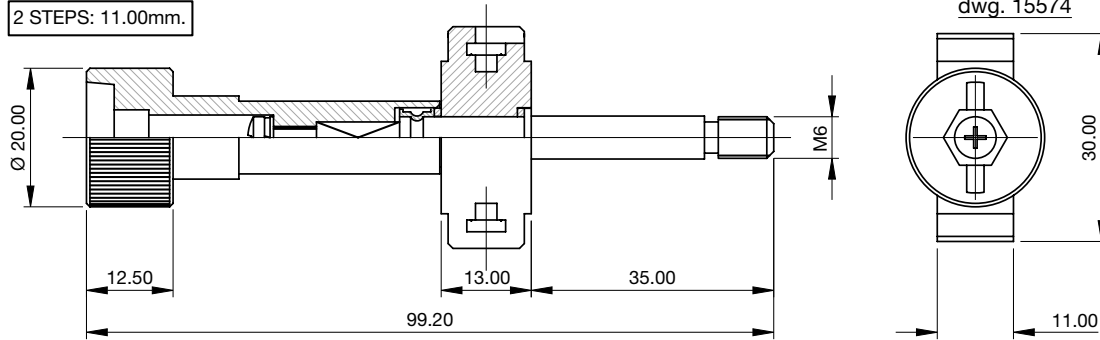


For spare parts ordering codes: consult factory

Type "O" Jackscrew

PLUG side connector

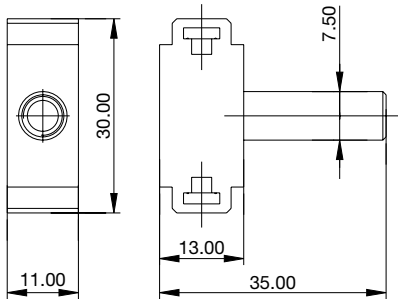
2 STEPS: 11.00mm.



RECEPTACLE side connector

2 STEPS: 11.00mm.

dwg. 15953



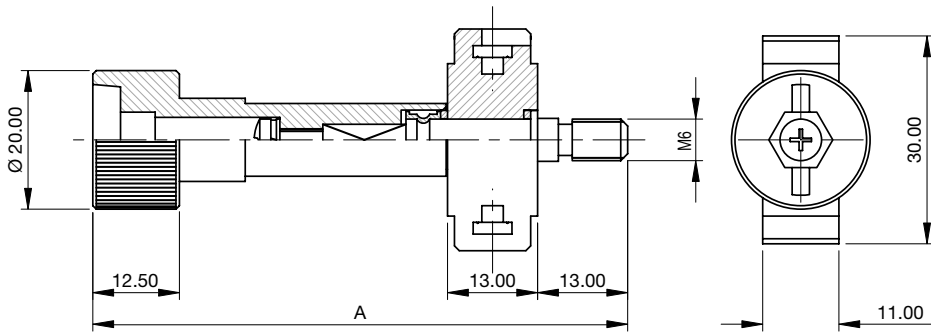
NOTE

Preferred for "BV" series

Type "2" Jackscrew

PLUG side connector

2 STEPS: 11.00mm.

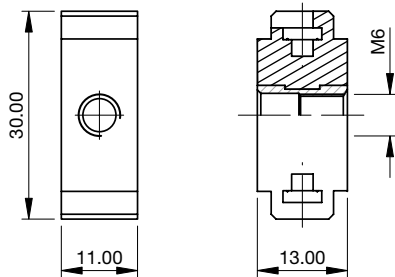


Application	A	Ref. Dwg
All series	77.20	15373
Series V 2 cable clamps	90.20	15374

RECEPTACLE side connector

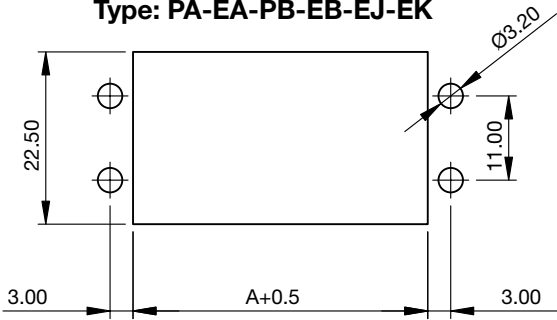
2 STEPS: 11.00mm.

dwg. 15301

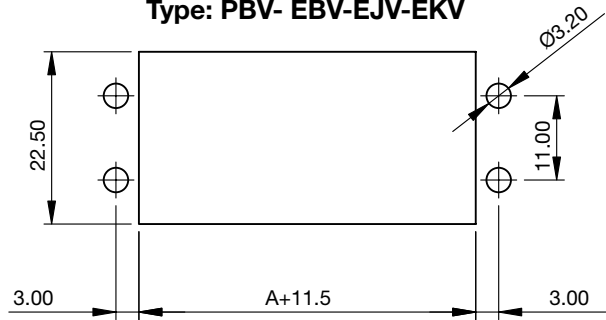


Panel cutout

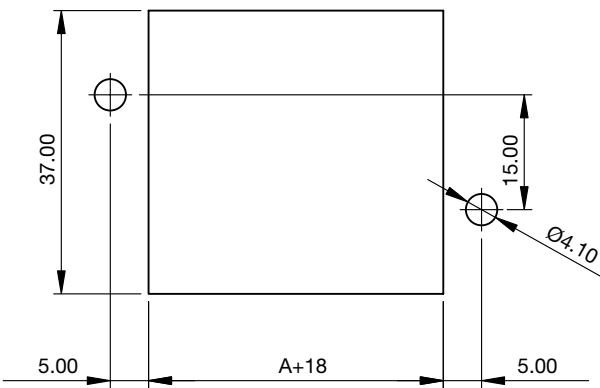
Type: PA-EA-PB-EB-EJ-EK



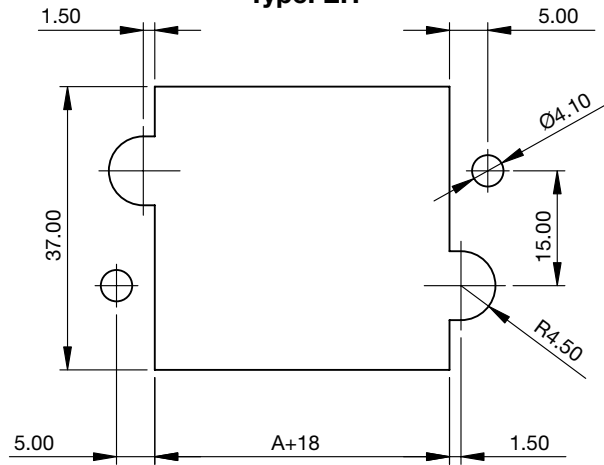
Type: PBV- EBV-EJV-EKV



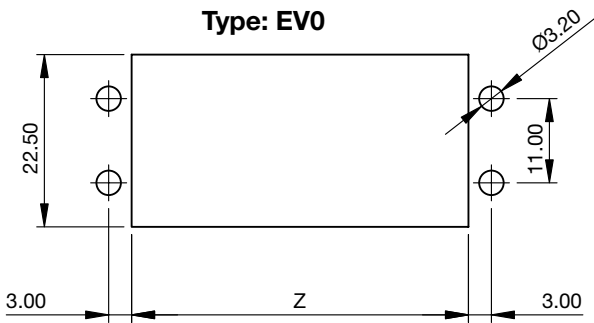
Type: PH



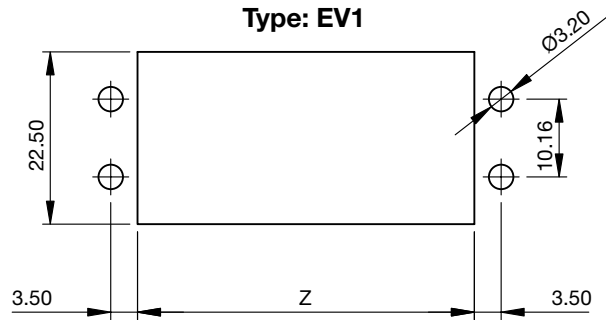
Type: EH



Type: EV0



Type: EV1



EV0 length-indication "a": Z= 66.5
 EV0 length-indication "b": Z= 83.0
 EV0 length-indication "c": Z= 83.0
 EV0 length-indication "d": Z= 94.0
 EV0 length-indication "e": Z= 110.5
 EV0 length-indication "f": Z= 121.5

EV1 length-indication "a": Z= 66.5
 EV1 length-indication "b": Z= 83.0
 EV1 length-indication "c": Z= 83.0
 EV1 length-indication "d": Z= 94.0
 EV1 length-indication "e": Z= 110.5
 EV1 length-indication "f": Z= 121.5

OTHER PRODUCTS FROM HYPERTAC INTERCONNECT

2 TO 5 ROWS PCB CONNECTORS

- . According to MIL-DTL-55302
- . 100 000 reliable mating and unmating cycles
- . Reduces need for board stiffeners and auxiliary actuators
- . Virtual immunity to shock and vibration
- . Under 5 mΩ contact resistance



VERY HIGH DENSITY PCB CONNECTOR

- . According to MIL-DTL-55302
- . 8 row offset grid (2,54 mm contacts, 1,27 mm rows)
- . 372 contacts
- . Lightweight with high structural strength
- . Low insertion force



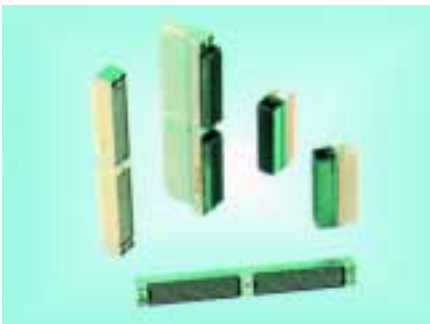
SIGNAL/POWER & COAXIAL CONTACTS

- Signal & power contacts
- . Over 100 000 mating and unmating cycles
- . Models for dry circuit to 500 Amps
- . Ideal for test, burn-in and high power use
- Coaxial contacts
- . Suits DIN 41612 cavity
- . Over 25 000 mating cycles
- . Low insertion force (140 grams average)



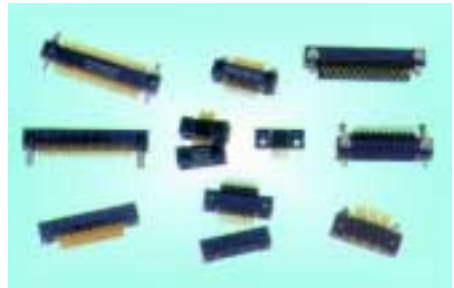
METAL SHELLED PCB CONNECTORS

- . According to MIL-DTL-55302
- . ESD insulation, EMI & RFI protection
- . Easily tailored to customer specific requirements
- . Suitable for LRM applications
- . Available as test connector, card extender and cable assembly



MIL-DTL-55302 PCB CONNECTORS

- . 2 contact rows within dielectric connector
- . Contact size of 0.76 mm nominal pin diameter
- . Number of contacts: 10-14-20-24-26-30-36-44-50-54-59-176
- . Alignment and keying provided by the end guide



AIRFRAME H71 SERIES

- . Meets performance requirements of BAe spec JN1123
- . Outstanding performance under extreme vibration conditions
- . Jackscrew mating device ensures correct mating
- . EMI & RFI protection
- . Integral environmental seal
- . Pin & socket bodies in accordance with MIL-C-39029



CIRCULAR SIGNAL CONNECTORS

- . Contact arrangement: 6 to 21 poles
- . IP67 protection (mated)
- . Nominal current: 3 to 20 A
- . Temperature range -20° to 125°C
- . Tested based on VDE 0627/09.91
- . Variable shielding connection based on standard EMC DIN EN 50082



QUICK DISCONNECT CONNECTOR

- . Plastic shelled
- . Quick disconnect enable easier mating and unmating cycles
- . 3 to 25 contacts
- . Crimp, solder terminations





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