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SOURIAU

852 SERIES

Bayonet Coupling Lightweight Connectors

MIL-C 26482G Series 2 / EN3646 Qualified

Esterline
Connection Technologies

Presentation

The 852 range is a lightweight version of MIL-C-26482 Series 2 connectors. Locking is achieved by a bayonet quick-release system. Hermetic stainless steel version is available.

852 design characteristics, performances and reliabillty meet the requirements of the following applications:

- civil and military aeronautics
- armored vehicle equipment
- civil, military, telecommunications and radars
- ballistic and tactical missiles
- spacecraft equipment
- weapons

Plugs, receptacles and accessories are manufactured from stainless steel or light aluminum alloy with black anodized (non-conductive plating), nickel plating (conductive plating), olive drab or yellow cadmium (conductive plating).

Gold plated crimp contacts are removable from the rear and retained by metallic clips. Mini-coax and thermocouple contacts may also be installed instead of standard contacts.

The hard insulator is a thermoplastic material. The insulators are fluid resistant as specified by MIL-C-26482G Series II / HE302 / EN3646, including Standard norms coming from earlier norms NFL54130 / NAS 1599 / LN 29504.

Front and rear silicone elastomer parts provide an effective seal between connector and cable and also at connector interface.

Contents

852 SERIES

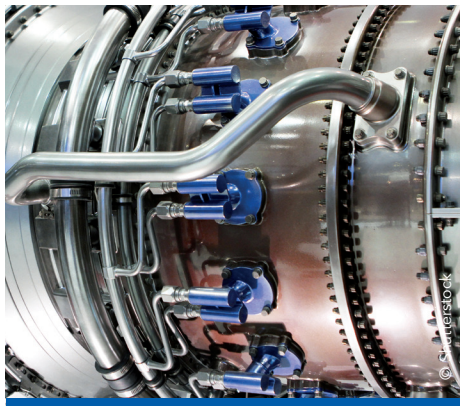
852 Series

Overview

Typical applications

Airframe Pressurized Area

Aircraft Cabin / IFE



Fuel Management

Military Aerospace / Weapons Systems

Radar & Detection

Features & Benefits

QPL

Qualified Connectors

SOURIAU is the first manufacturer to offer all EN3646 qualified connectors (8525 Series).
MIL-C-26482 Series 2 qualified (8526 Series).

TIME SAVING

Quick Bayonet Mating

Bayonet locking system: one of the quickest in the aerospace connectors market.

RELIABLE

Proven Technology

Used on many applications: aerospace, railway, nuclear, telecom/datacom infrastructures.

LARGE OFFER

Customizable Product

Various PC tail contacts lengths.
Connectors can be delivered with backshells.
Shunted version available.

HIGH SEALING

High Sealing Performance

Fuel tank and resin sealed version.
Hermetic stainless steel version.

A wide product range

2 Materials, 5 Platings

Aluminum
- **Black Anodized**
- **Nickel** RoHS
- **Olive Green Cadmium**
- **Yellow Cadmium**

Stainless Steel
- **Passivated** RoHS

Qualified range

EN3646
8525 Series

MIL-C 26482G Series 2
8526 Series

Qualified accessories
Backshells and **caps**

many Options

Contact offer
Crimp / Solder / PCB
Quadrax technology
Shunted version

High sealing
Hermetic full range
Resin sealed version
Fuel tank version

8525/8526 Series comparison

8525 Series
Dedicated Characteristics

- **EN3646** qualified
- **Low profile** design
- **Improved shielding** with 360° teeth option

8525 / 8526 Series
Common Characteristics

- **Quick mating** bayonet locking
- **Signal integrity** plug with or without RFI shielding
- Up to **200°C**
- **Improved sealing**

8526 Series
Dedicated Characteristics

- **MIL-C 26482G Series 2** qualified
- **3 rear teeth** at 120°

Worldwide sales network

SOURIAU is recognized as one of the top international manufacturers of connectors for harsh environment and is continuously strengthening its leading position through its solid structure as an international group. Today the **SOURIAU** group has a strong worldwide global presence on 4 continents.

Our international presence is reinforced by franchised and value added distributors in many countries.

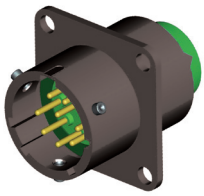
We also rely upon an extensive network of distributors and resellers worldwide. This coverage, together with a strong commitment towards service, ensures rapid responses to the specific needs of our customers.

■ **SOURIAU** Operations & Sales Offices
● Franchised & Value Added Distributors

8525/8526 Series overview

STANDARD VERSION see p.16 & 20


Plug


Square flange receptacle


Jam nut receptacle

8525

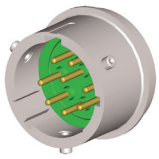

Plug

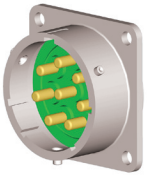

Square flange receptacle

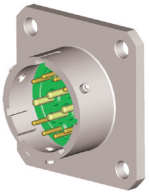

Jam nut receptacle

8526

HERMETIC VERSION see p.26 & 33

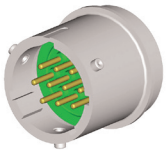

Solder mount receptacle

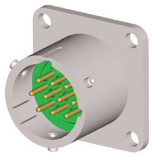

Square flange receptacle

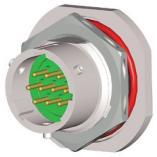

Large flange receptacle


Jam nut receptacle

8525


Solder mount receptacle


Square flange receptacle


Jam nut receptacle

8526

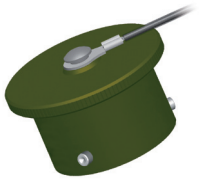
QUADRAX VERSION see p.24

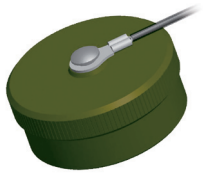

Plug


Square flange receptacle

8525

CAPS see p.44


Cap for plug


Cap for receptacle

8525 8526

BACKSHELLS see p.40


Backnut

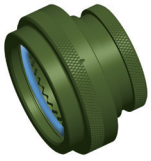

Straight cable clamp


Elbow cable clamp


For heatshrink sleeving


For solder shield termination


For shield termination and heatshrink sleeving


Backnut for heatshrink sleeving

8525 8526

8525 Series cross reference list

Designation		SOURIAU	EN	ABS / ASN-E	NFC 93422 / HE302
Aluminum connectors	Square flange receptacle	8525 10 R •• P/S • H Δ 8525 10 N •• P/S • H Δ 8525 10 R •• P/S • H L 8525 10 N •• P/S • H L 8525 10 R •• P/S • H • 8525 10 N •• P/S • H •	EN3646 A0 •• C/D • EN3646 RS0 •• C/D • EN3646 A0 •• A/B • EN3646 RS0 •• A/B • EN3646 A0 •• M/F • EN3646 RS0 •• M/F •	ASNE-E 0053 R •••• P/S E ASNE-E 0053 N •••• P/S E ASNE-E 0053 R •••• P/S F ASNE-E 0053 N •••• P/S F	HE 302-0N •••• P/S 1F HE 302-0G •••• P/S 6
	Jam nut receptacle	8525 17 R •• P/S • H Δ 8525 17 N •• P/S • H Δ 8525 17 R •• P/S • H L 8525 17 N •• P/S • H L 8525 17 R •• P/S • H • 8525 17 N •• P/S • H •	EN3646 A7 •• C/D • EN3646 RS7 •• C/D • EN3646 A7 •• A/B • EN3646 RS7 •• A/B • EN3646 A7 •• M/F • EN3646 RS7 •• M/F •	ASNE-E 0054 R •••• P/S E ASNE-E 0054 N •••• P/S E ASNE-E 0054 R •••• P/S F ASNE-E 0054 N •••• P/S F	HE 302-7N •••• P/S 1F HE 302-7G •••• P/S 6
	Plug without shielding	8525 16 R •• P/S • H Δ 8525 16 N •• P/S • H Δ 8525 16 R •• P/S • H L 8525 16 N •• P/S • H L 8525 16 R •• P/S • H • 8525 16 N •• P/S • H •	EN3646 A6 •• C/D • EN3646 A6 •• A/B • EN3646 A6 •• M/F •	ASNE-E 0052 R •••• P/S E ASNE-E 0052 R •••• P/S F	HE 302-6N •••• P/S 1F HE 302-6G •••• P/S 6
	RFI shielded plug	8525 36 N •• P/S • H Δ 8525 36 N •• P/S • H L 8525 36 N •• P/S • H •	EN3646 RS6 •• C/D • EN3646 RS6 •• A/B • EN3646 RS6 •• M/F •	ASNE-E 0052 N •••• P/S E ASNE-E 0052 N •••• P/S F	HE 302-8G •••• P/S 6
Stainless Steel connectors	Square flange receptacle	8525 10 K •• P/S • H Δ 8525 10 K •• P/S • H L			
	Jam nut receptacle	8525 17 K •• P/S • H Δ 8525 17 K •• P/S • H L			
	RFI shielded plug	8525 36 K •• P/S • H Δ 8525 36 K •• P/S • H L			
Hermetic version	Square flange receptacle	8525 02 H ••• P H	EN3646 Y0 •• M •		HE 302-2H •••• P 0F
	Jam nut receptacle	8525 07 H ••• P H	EN3646 Y7 •• M •		HE 302-7H •••• P 0F
	Solder mount receptacle	8525 I H ••• P H	EN3646 Y1 •• M •		HE 302-1H •••• P 0F
Backshells	Backnut	852 01 R •• 852 01 N ••			HE 302-01R ••• B1 HE 302-01G ••• AG
	Straight cacle clamp	852 02 R •• 852 02 N ••			HE 302-02R ••• B1 HE 302-02G ••• AG
	Elbow cable clamp	852 03 R •• 852 03 N ••			HE 302-03R ••• B1 HE 302-03G ••• AG
	For heatshrink sleeving	852 17 R •• 852 17 N ••			HE 302-04R ••• B1 HE 302-04G ••• AG
	For solder shield termination	852 18 R •• 852 18 N ••			HE 302-05R ••• B1 HE 302-05G ••• AG
Caps	For receptacle	852 27 R •• 852 27 N •• 852 27 W ••	EN3646 A3C •• EN3646 RS3C •• EN3646 WS3C ••		
	For plug	852 28 R •• 852 28 N •• 852 28 W ••	EN3646 A4C •• EN3646 RS4C •• EN3646 WS4C ••		
Contacts	Male contacts	8522 2349 A 8526 1349 8526 1350 8526 1348 8522 6179 A 8526 5041	EN3155018M2018 EN3155018M1616 EN3155018M1212 EN3155018M2020 EN3155018M1614 EN315555018M1218		
	Female contacts	8520 292 8526 1346 A 900 8526 1347 A 900 8526 1344 900 8522 6180 B 900 8526 5591 A 900	EN3155019F2018 EN3155019F1616 EN3155019F1212 EN3155019F2020 EN3155019F1614 EN3155019F1218		
	Thermocouple male contacts	8522 875 8522 876	EN3155056M2020 EN3155054M2020		
	Thermocouple female contacts	8522 877 900 8522 878 900	EN3155057F2020 EN3155055F2020		

Δ = Specification : 008: for #20 contacts layouts
068: for mixed #16 and #20 contacts layouts
empty: for #12 or #16 contacts layouts

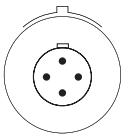
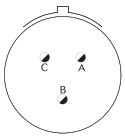
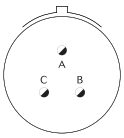
8526 Series cross reference list

Designation		SOURIAU	NFC 93422 / HE312
Aluminum connectors	Square flange receptacle	8526 00 G •• B •• P/S • 8526 00 N •• B •• P/S •	HE 312 0E •••• P/S • 7 HE 312 0E •••• P/S • 6
	Jam nut receptacle	8526 07 G •• B •• P/S • 8526 07 N •• B •• P/S •	HE 312 7E •••• P/S • 7 HE 312 7E •••• P/S • 6
	Plug without shielding	8526 16 G •• B •• P/S • 8526 16 N •• B •• P/S •	HE 312 6E •••• P/S • 7 HE 312 6E •••• P/S • 6
	RFI shielded plug	8526 36 G •• B •• P/S • 8526 36 N •• B •• P/S •	HE 312 5E •••• P/S • 7 HE 312 5E •••• P/S • 6
Hermetic version	Square flange receptacle	8526 2H •••• P •	HE 312 2H •••• P • 2
	Jam nut receptacle	8526 7H •••• P •	HE 312 7H •••• P • 2
	Solder mount receptacle	8526 1H •••• P •	HE 312 1H •••• P • 2
Backshells	Backnut	852 01 G •• 852 01 N ••	HE 312 01 •• 7 HE 312 01 •• 6
	Straight cacle clamp	852 02 G •• 852 02 N ••	HE 312 02 •• 7 HE 312 02 •• 6
	Elbow cable clamp	852 03 G •• 852 03 N ••	HE 312 03 •• 7 HE 312 03 •• 6
	For shield termination and heatshrink sleeving	852 32 G •• 852 32 N ••	HE 312 06 •• 7 HE 312 06 •• 6
Caps	For receptacle	852 26 G •• 852 26 N •• 852 28 G •• 852 28 N ••	HE 312 B06 •• 7 HE 312 B06 •• 6 HE 312 B16 •• 7 HE 312 B16 •• 6
	For plug	852 27 G •• 852 27 N •• 852 29 G •• 852 29 N ••	HE 312 B00 •• 7 HE 312 B00 •• 6 HE 312 B07 •• 7 HE 312 B07 •• 6

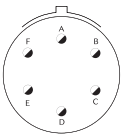
Designation		SOURIAU	MIL-C 26482G Series 2
Aluminum connectors delivered with contacts	Square flange receptacle	8526 0 W •••• P/S • 8526 0 L •••• P/S •	MS3470 W •••• P/S • MS3470 L •••• P/S •
	Jam nut receptacle	8526 7 W •••• P/S • 8526 7 L •••• P/S •	MS3474 W •••• P/S • MS3474 L •••• P/S •
	Plug without shielding	8526 6 W •••• P/S • 8526 6 L •••• P/S •	MS3476 W •••• P/S • MS3476 L •••• P/S •
	RFI shielded plug	8526 5 W •••• P/S • 8526 5 L •••• P/S •	MS3475 W •••• P/S • MS3475 L •••• P/S •
Aluminum connectors delivered without contacts	Square flange receptacle	8526 0 W •••• P/S • L 8526 0 L •••• P/S • L	MS3470 W •••• A/B • MS3470 L •••• A/B •
	Jam nut receptacle	8526 7 W •••• P/S • L 8526 7 L •••• P/S • L	MS3474 W •••• A/B • MS3474 L •••• A/B •
	Plug without shielding	8526 6 W •••• P/S • L 8526 6 L •••• P/S • L	MS3476 W •••• A/B • MS3476 L •••• A/B •
	RFI shielded plug	8526 5 W •••• P/S • L 8526 5 L •••• P/S • L	MS3475 W •••• A/B • MS3475 L •••• A/B •
Hermetic version	Square flange receptacle	8526 2H •••• P •	MS3440 H •• C •• P •
	Jam nut receptacle	8526 7H •••• P •	MS3449 H •• C •• P •
	Solder mount receptacle	8526 1H •••• P •	MS3443 H •• C •• P •
Backshells	Backnut	852 31 W •• 852 31 A •• 852 31 N ••	M85049/31 •• W M85049/31 •• A M85049/31 •• N
	Straight cacle clamp	852 52 W •• 852 52 A •• 852 52 N ••	M85049/52-1 •• W M85049/52-1 •• A M85049/52-1 •• N
	Elbow cable clamp	852 51 W •• 852 51 A •• 852 51 N ••	M85049/51-1 •• W M85049/51-1 •• A M85049/51-1 •• N
	For heatshrink sleeving	852 60 W •• 852 60 A •• 852 60 N ••	M85049/60-1 W •• M85049/60-1 A •• M85049/60-1 N ••
	Backnut for heatshrink sleeving	852 57 W •• 852 57 A •• 852 57 N ••	M85049/60-2G •• W M85049/60-2G •• A M85049/60-2G •• N

Contact layouts 8525/8526 Series

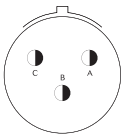
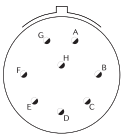
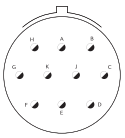
8

01	3A/98	33
		
1#8 Quadrax	3#20 Service I	3#20 Service I

10

06

6#20 Service I

12

03	08	10
		
3#16 Service II	8#20 Service I	10#20 Service I

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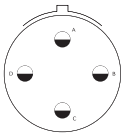
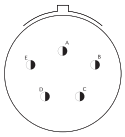
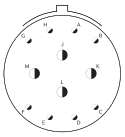
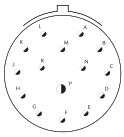
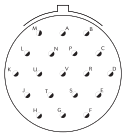
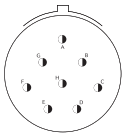
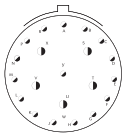
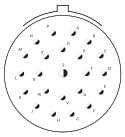
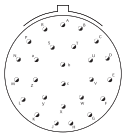
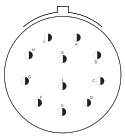
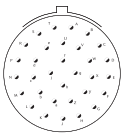
04	05	12	15	19
				
4#12 Service I	5#16 Service II	8#20 4#16 Service I	14#20 1#16 Service I	19#20 Service I

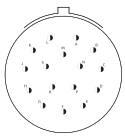
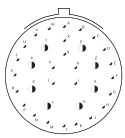
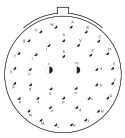
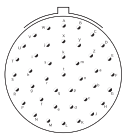
16

08	21	23	26
			
8#16 Service II	16#20 5#16 Service I	22#20 1#16 Service I	26#20 Service I

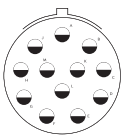
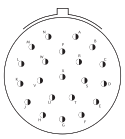
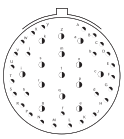
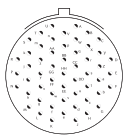
18

08	11	32
		
8#12 Service I	11#16 Service I	32#20 Service I

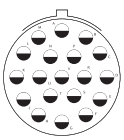
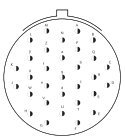
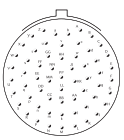
20

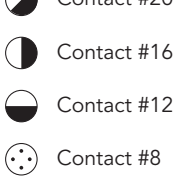
16	34	39	41
			
16#16 Service II	26#20 8#16 Service I	37#20 2#16 Service I	41#20 Service I

22

12	21	41	55
			
12#12 Service I	21#16 Service II	27#20 14#16 Service I	55#20 Service I

24

19	31	61
		
19#12 Service II	31#16 Service I	61#20 Service I



Contact layouts 8525/8526 Series (matrix)

Shell size & layout	8525	8525 Hermetic	Shell size & layout	EN3646	EN3646 Hermetic	Shell size & layout	8526	8526 Hermetic	Shell size & layout	MIL-C 26482G	MIL-C 26482G Hermetic	Number of contacts			
												#20	#16	#12	#8
8B01	OK														1
8B3A	OK	OK	83A	Q	Q	8B3A	OK	OK	83A	Q		3			
8B98	OK	OK	898	Q	Q	8B98	OK	OK	898	Q		3			
8B33	OK	OK	833	Q	Q	8B33	OK	OK	833	Q	Q	3			
10B06	OK	OK	1006	Q	Q	10B6	OK	OK	106	Q	Q	6			
12B03	OK	OK	1203	Q	Q	12B3	OK	OK	123	Q	Q		3		
12B08	OK		1208	Q		12B8	OK		128	Q		8			
12B10	OK	OK	1210	Q	Q	12B10	OK	OK	1210	Q	Q	10			
14B04	OK	OK	1404	Q	Q	14B4	OK	OK	144	Q				4	
14B05	OK	OK	1405	Q	Q	14B5	OK	OK	145	Q	Q		5		
14B12	OK	OK	1412	Q	Q	14B12	OK	OK	1412	Q	Q	8	4		
14B15	OK	OK	1415	Q	Q	14B15	OK	OK	1415	Q	Q	14	1		
14B19	OK	OK	1419	Q	Q	14B19	OK	OK	1419	Q	Q	19			
16B08	OK	OK	1608	Q	Q	16B08	OK	OK	168	Q	Q		8		
16B21	OK	OK	1621	Q		16B21		OK				16	5		
16B23	OK		1623	Q		16B23	OK					22	1		
16B26	OK	OK	1626	Q	Q	16B26	OK	OK	1626	Q	Q	26			
18B08	OK	OK	1808	Q	Q	18B8	OK	OK	188	Q				8	
18B11	OK		1811	Q		18B11	OK		1811	Q			11		
18B32	OK	OK	1832	Q	Q	18B32	OK	OK	1832	Q	Q	32			
20B16	OK	OK	2016	Q	Q	20B16	OK	OK	2016	Q	Q		16		
20B34	OK		2034	Q								26	8		
20B39	OK	OK	2039	Q		20B39	OK	OK	2039	Q		37	2		
20B41	OK	OK	2041	Q	Q	20B41	OK	OK	2041	Q	Q	41			
22B12	OK		2212	Q		22B12	OK		2212	Q				12	
22B21	OK	OK	2221	Q	Q	22B21	OK	OK	2221	Q	Q		21		
22B41	OK	OK	2241	Q	Q	22B41	OK	OK	2241	Q	Q	27	14		
22B55	OK	OK	2255	Q	Q	22B55	OK	OK	2255	Q	Q	55			
24B19	OK		2419	Q		24B19	OK		2419	Q				19	
24B31	OK		2431	Q		24B31	OK		2431	Q			31		
24B61	OK	OK	2461	Q	Q	24B61	OK	OK	2461	Q	Q	61			

OK = SOURIAU's layout
Q = SOURIAU's qualified layout

852 SERIES

852 Series

Product Ranges

Description

- Bayonet coupling
- EN3646 qualified
- Intermateable with MIL-C 26482G Series I and II
- RFI shielding plug
- Gold plated crimp contacts #20, #16, #12
- Minicoax contacts #16

Technical features

Mechanical

- **Shell & plating:**
  Aluminum:
  - Black anodized (R)
  - Nickel (N)
  - Olive green cadmium (W)
  - Yellow cadmium (G)

  Passivated stainless steel (K)
- **Insulator:** Thermoplastic
- **Seal:** Silicone elastomer
- **Contact:** Copper alloy
- **Contact plating:** Gold
- **Endurance:**
  500 mating cycles (R and K)
  250 mating cycles (N, G and W)
- **Shock:** As per EN3646
- **Vibration:**
  From 10 to 2000 Hz - acceleration: 20G
- **Contact retention in insert:**
  Size 20: 90 N
  Size 16: 115 N
  Size 12: 136 N

Electrical

- **Contact resistance:**
  Size 20: ≤ 1 mΩ
  Size 16: ≤ 0.55 mΩ
  Size 12: ≤ 0.35 mΩ
- **Insulation resistance:**
  ≥ 5000 MΩ at 500 Vdc
- **Max current rating per contact:**
  Size 20: 7.5A
  Size 16: 13A
  Size 12: 23A
- **Shell continuity:**
  ≤ 5 mΩ, plug with grounding ring and receptacle
- **Dielectric withstanding voltage:**

Service	sea level	at 21000 m
I	1500 Vrms	375 Vrms
II	2300 Vrms	550 Vrms

Environmental

- **Temperature range:**
  -65°C to +175°C (G and W)
  -65°C to +200°C (R, N and K)
- **Damp heat:** 56 days
- **Salt spray:**
  500 hours (G, W and K)
  48 hours (N and R)
- **Leakage:**
  Method B differential pressure: 100kPa
  Maximum leakage flow: $16x10^{-6}$ m^3/h
- **Corrosion resistance:** As per EN3646-001
- **Fluid resistance:**
  As per EN3646-001
  D suffix version: Skydrol withstanding

Ordering information

SOURIAU part number

Basic series	8525	10	R	18B32	P	N	H

Shell type
- **16:** Plug without shielding
- **36:** RFI shielded plug
- **10:** Square flange receptacle
- **17:** Jam nut receptacle

Material & Plating
- **R:** Aluminum - black anodized non conductive plating
- **N:** Aluminum - nickel conductive plating
- **G:** Aluminum - yellow cadmium conductive plating
- **W:** Aluminum - olive drab cadmium conductive plating
- **K:** Passivated stainless steel

Shell size & Contact layout: See pages 12 & 13

Contact type
- **P:** Male
- **S:** Female

Orientation: N, W, X, Y, Z see page 53

Mandatory suffix
- **D:** Aluminum version with 3 rear teeth at 120° with fluorsilicon grommet and interfacial seal
- **H:** Aluminum version with 3 rear teeth at 120° or Stainless steel version with rear teeth over 360°
- **K:** Aluminum version with rear teeth over 360°

Specification
- **empty:** Delivered without backshell
- **L:** Delivered without contacts, without backshell
- **008:** Delivered with special contacts - #20 for 0.38 to 0.93mm² cable or #16 for 0.93 to 1.91mm² cable
- **009:** Delivered with PC tail contacts #20, Ø 0.6mm or #16, Ø 1mm - 7.3mm length max for receptacle type 10 and 17 only
- **068:** Mixed contacts layouts - delivered with special contacts #20 for 0.38 to 0.93 mm² cable and standard contacts #16
- **001:** Delivered with backnut backshell
- **001L:** Delivered with backnut backshell and without contacts
- **002:** Delivered with straight cable clamp backshell
- **002L:** Delivered with straight cable clamp backshell and without contacts
- **003:** Delivered with elbow cable clamp backshell
- **003L:** Delivered with elbow cable clamp backshell and without contacts
- **007:** Delivered with backshell for heatshrink sleeving
- **011:** Delivered with backnut backshell and special contacts (large barrel)
- **012:** Delivered with straight cable clamp backshell and special contacts (large barrel)
- **013:** Delivered with elbow cable clamp backshell and special contacts (large barrel)
- **017:** Delivered with backshell for heatshrink sleeving and special contacts (large barrel)
- **018:** Delivered with backshell for solder shield termination and special contacts (large barrel)
- **057:** Delivered with backnut backshell for heatshrink sleeving
- **057L:** Delivered with backnut backshell for heatshrink sleeving and without contacts

EN3646 part number

Basic series	EN3646	RS0	10	06	M	N

Shell type, temperature, plating and rear teeth
- **A6:** Aluminum plug without grounding spring, 200°C, black anodized plated, 3 rear teeth at 120°
- **RS6:** Aluminum plug with grounding spring, 200°C, nickel plated, 3 rear teeth at 120°
- **WS6:** Aluminum plug with grounding spring, 175°C, olive green cadmium plated, rear teeth over 360°
- **A0:** Aluminum square flange receptacle, 200°C, black anodized plated, 3 rear teeth at 120°
- **RS0:** Aluminum square flange receptacle, 200°C, nickel plated, 3 rear teeth at 120°
- **WS0:** Aluminum square flange receptacle, 175°C, olive green cadmium plated, rear teeth over 360°
- **A7:** Aluminum jam nut receptacle, 200°C, black anodized plated, 3 rear teeth at 120°
- **RS7:** Aluminum jam nut receptacle, 200°C, nickel plated, 3 rear teeth at 120°
- **WS7:** Aluminum jam nut receptacle, 175°C, olive green cadmium plated, rear teeth over 360°

Shell size: 08, 10, 12, 14, 16, 18, 20, 22, 24

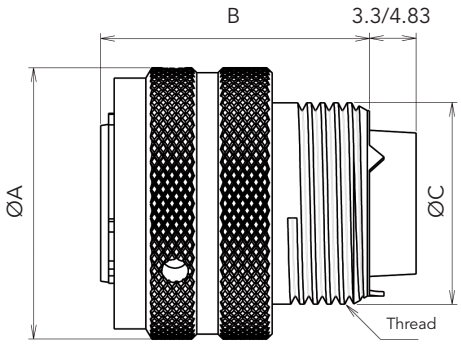
Contact layout: See pages 12 & 13

Contact type
- **M:** Male
- **A:** Connector delivered without male contact
- **C:** Connector delivered with male contact #20 large barrel
- **F:** Female
- **B:** Connector delivered without female contact
- **D:** Connector delivered with female contact #20 large barrel

Orientation: N, W, X, Y, Z see page 53

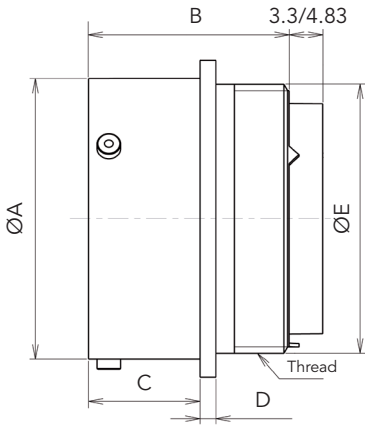
Dimensions

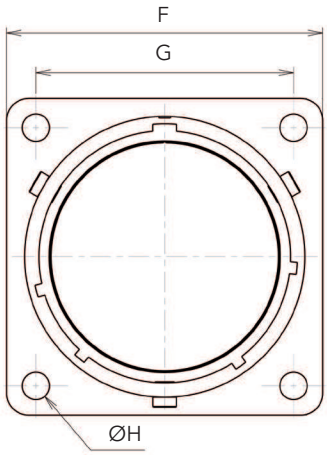
Plug (types 16 & 36)

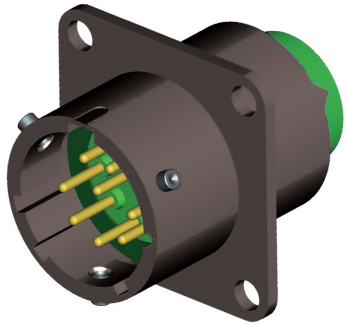


Shell size	ØA Max	B Max	ØC Max	Thread
8	18.86	25.50	12.10	0.5-20 UNF 2A
10	23.52		15.30	0.625-24 UNEF 2A
12	26.48		18.40	0.75-20 UNEF 2A
14	30.05		21.60	0.875-20 UNEF 2A
16	33.15		24.75	1-20 UNEF 2A
18	35.33		26.20	1.0625-18 UNEF 2A
20	38.89	27.00	29.40	1.1875-18 UNEF 2A
22	42.06		32.50	1.3125-18 UNEF 2A
24	45.14		35.70	1.4375-18 UNEF 2A

Square flange receptacle (type 10)





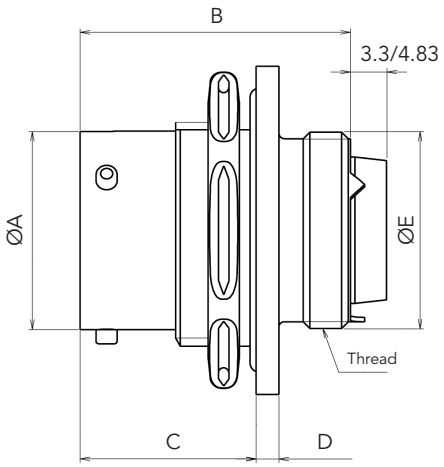


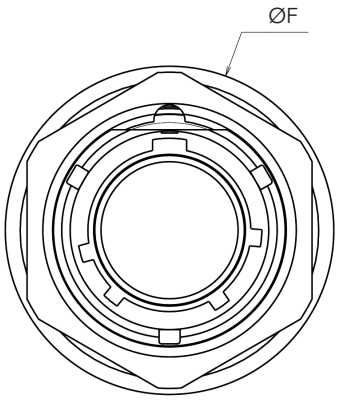
Panel cut-out, see page 52.

Shell size	ØA Max	B Max	C Max	D Max	ØE Max	Thread	F Max	G	ØH Max
8	12.04	25.35	11.70	1.37	12.10	0.5-20 UNF 2A	21.00	15.09	3.19
10	15.01				15.30	0.625-24 UNEF 2A	24.25	18.26	
12	19.07				18.40	0.75-20 UNEF 2A	26.55	20.62	
14	22.25				21.60	0.875-20 UNEF 2A	28.90	23.01	
16	25.42				24.75	1-20 UNEF 2A	31.30	24.61	
18	28.60				26.20	1.0625-18 UNEF 2A	33.70	26.97	
20	31.77	27.15	14.35	2.20	29.40	1.1875-18 UNEF 2A	36.90	29.36	
22	34.95				32.50	1.3125-18 UNEF 2A	40.00	31.75	
24	38.12		15.20		35.70	1.4375-18 UNEF 2A	43.30	34.92	3.80

Note: All dimensions are in millimeters (mm)

Jam nut receptacle (type 17)

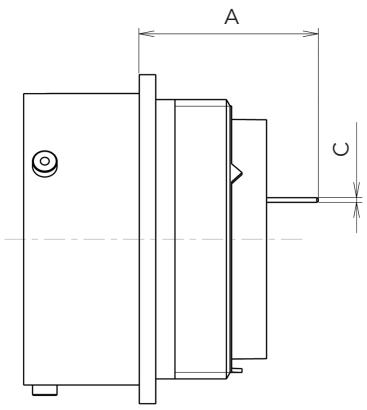




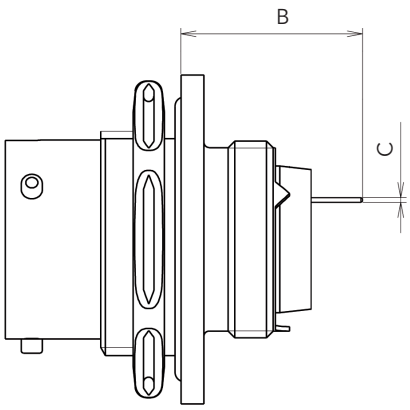
Panel cut-out, see page 52.

Shell size	ØA Max	B Max	C Max	D Max	ØE Max	Thread	ØF Max
8	12.04	25.90	16.85	2.35	12.10	0.5-20 UNF 2A	23.60
10	15.01				15.30	0.625-24 UNEF 2A	26.60
12	19.07				18.40	0.75-20 UNEF 2A	31.35
14	22.25				21.60	0.875-20 UNEF 2A	34.70
16	25.42				24.75	1-20 UNEF 2A	37.75
18	28.60				26.20	1.0625-18 UNEF 2A	40.95
20	31.77	27.50	18.45	2.55	29.40	1.1875-18 UNEF 2A	45.70
22	34.95				32.50	1.3125-18 UNEF 2A	48.90
24	38.12				35.70	1.4375-18 UNEF 2A	52.05

PCB version



Type 10



Type 17

Shell size		08 to 18	20 & 22	24
A	**Min**	25.05	23.95	23.10
	Max	26.00	24.90	24.05
B	**Min**	19.75		
	Max	20.85		
C ±0.1	**#20**	0.6		
	#16	1.0		

Note: All dimensions are in millimeters (mm)

Description

- Bayonet coupling
- MIL-C 26482G Series 2 qualified
- Intermateable with MIL-C 26482G Series 1
- Aluminum olive green or nickel plating
- Gold plated crimp contacts #20, #16, #12
- Minicoax contacts #16

Technical features

Mechanical

- **Shell & plating:**
  Aluminum nickel (N)
  Aluminum olive green cadmium (G)
- **Insulator:** Thermoplastic
- **Seal:** Silicone elastomer
- **Contact:** Copper alloy
- **Contact plating:** Gold
- **Endurance:**
  500 mating cycles
  250 mating cycles (RFI shielded plug)
- **Shock:** According to NFC 93422 - HE 312
- **Vibration:**
  From 10 to 2000 Hz - acceleration: 20G
- **Contact retention in insert:**
  Size 20: 90 N
  Size 16: 115 N
  Size 12: 133 N

Electrical

- **Contact resistance:**
  Size 20: ≤ 1 mΩ
  Size 16: ≤ 0.55 mΩ
  Size 12: ≤ 0.35 mΩ
- **Insulation resistance:**
  ≥ 5000 MΩ at 500 Vdc
- **Max current rating per contact:**
  Size 20: 7.5A
  Size 16: 13A
  Size 12: 23A
- **Shell continuity:**
  ≤ 5 mΩ, plug with grounding ring and receptacle
- **Dielectric withstanding voltage:**

Service	sea level	at 21000 m
I	1500 Vrms	375 Vrms
II	2300 Vrms	550 Vrms

Environmental

- **Temperature range:**
  -55°C to +175°C (G)
  -55°C to +200°C (N)
- **Damp heat:** 56 days
- **Salt spray:**
  500 hours (G)
  48 hours (N)
- **Leakage:**
  Method B differential pressure: 100kPa
  Maximum leakage flow: $16x10^{-6}$ m^3/h
- **Fluid resistance:**
  According to NFC 93422 - HE 3121

Ordering information

SOURIAU part number

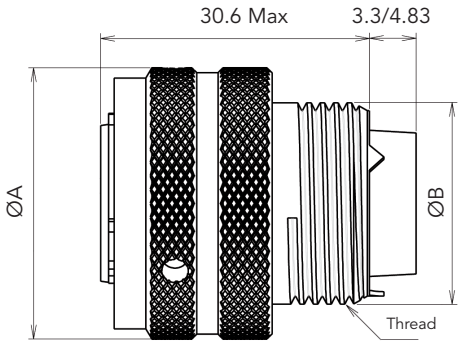
Basic series	8526	00	G	10B6	P	N
Shell type **16:** Plug without shielding **36:** RFI shielded plug **00:** Square flange receptacle **07:** Jam nut receptacle						
Material & Plating **N:** Aluminum - nickel conductive plating **G:** Aluminum - olive green cadmium conductive plating						
Shell size & Contact layout: See pages 12 & 13						
Contact type **P:** Male **S:** Female						
Orientation: N, W, X, Y, Z see page 53						
Specification **empty:** Delivered with standard contacts and without backshell **L:** Delivered without contacts **01:** Delivered with standard contacts and backnut backshell **02:** Delivered with standard contacts and straight cable clamp backshell **03:** Delivered with standard contacts and elbow cable clamp backshell **17:** Delivered with standard contacts and backshell for heatshrink sleeving **32:** Delivered with standard contacts and backshell for shield termination and heatshrink sleeving **09:** Delivered with PC tail contacts size 20, Ø 0.60 mm, 7.30 mm length max - for receptacle type 00 and 07 only						

MS part number

Basic series	MS	3470	W	106	P
Shell type **3470:** Square flange receptacle **3474:** Jam nut receptacle **3475:** RFI shielded plug **3476:** Plug without shielding					
Material & Plating **L:** Aluminum - nickel conductive plating **W:** Aluminum - olive green cadmium conductive plating					
Shell size & Contact layout: See pages 12 & 13					
Contact type **P:** Male **S:** Female **A:** Without male contacts **B:** Without female contacts					
Orientation **empty:** N **W, X, Y, Z:** See page 53					

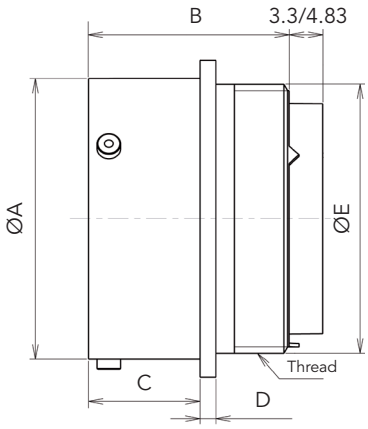
Dimensions

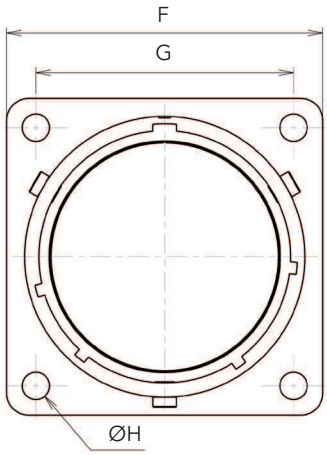
Plug (types 16 & 36)

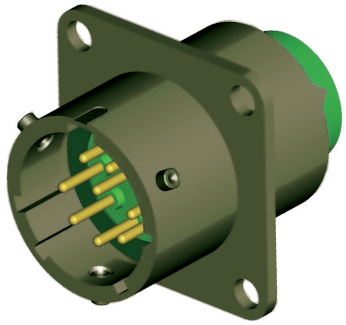


Shell size	ØA Max	ØB Max	Thread
8	18.86	12.10	0.5-20 UNF 2A
10	23.52	15.30	0.625-24 UNEF 2A
12	26.48	18.40	0.75-20 UNEF 2A
14	30.05	21.60	0.875-20 UNEF 2A
16	33.15	24.75	1-20 UNEF 2A
18	35.33	26.20	1.0625-18 UNEF 2A
20	38.89	29.40	1.1875-18 UNEF 2A
22	42.06	32.50	1.3125-18 UNEF 2A
24	45.14	35.70	1.4375-18 UNEF 2A

Square flange receptacle (type 00)





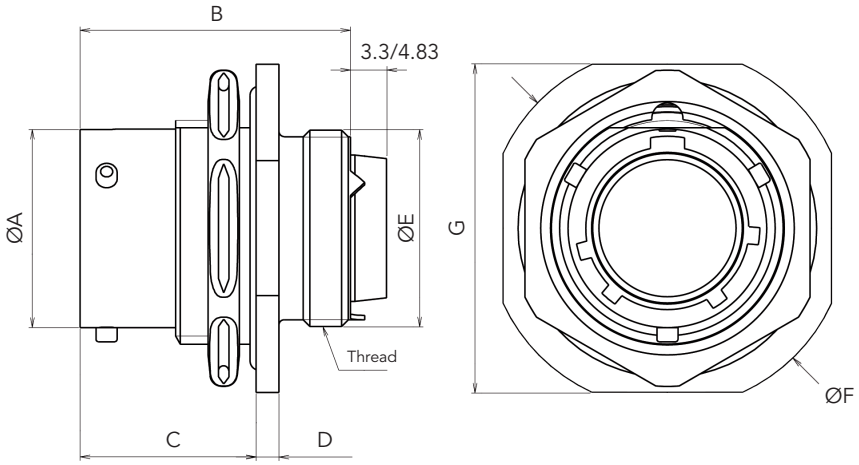


Panel cut-out, see page 52.

Shell size	ØA Max	B Max	C Max	D Max	ØE Max	Thread	F Max	G	ØH Max
8	12.04	30.50	11.70	1.95	12.10	0.5-20 UNF 2A	21.00	15.09	3.19
10	15.01				15.30	0.625-24 UNEF 2A	24.25	18.26	
12	19.07				18.40	0.75-20 UNEF 2A	26.55	20.62	
14	22.25				21.60	0.875-20 UNEF 2A	28.90	23.01	
16	25.42				24.75	1-20 UNEF 2A	31.30	24.61	
18	28.60				26.20	1.0625-18 UNEF 2A	33.70	26.97	
20	31.77	31.63	14.35	2.75	29.40	1.1875-18 UNEF 2A	36.90	29.36	
22	34.95				32.50	1.3125-18 UNEF 2A	40.00	31.75	
24	38.12		15.20		35.70	1.4375-18 UNEF 2A	43.30	34.92	3.80

Note: All dimensions are in millimeters (mm)

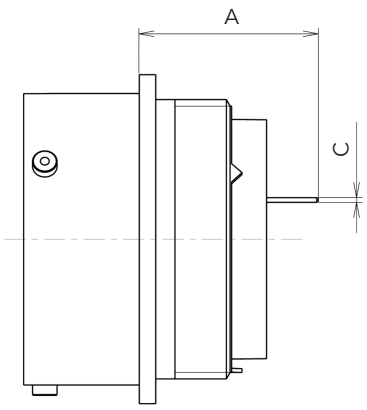
Jam nut receptacle (type 07)



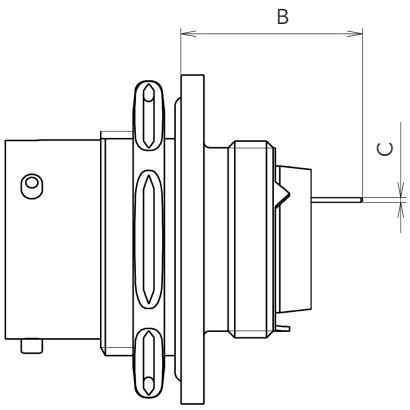
Panel cut-out, see page 52.

Shell size	ØA Max	B Max	C Max	D Max	ØE Max	Thread	ØF Max	G Max
8	12.04	30.60	17.65	2.56	12.10	0.5-20 UNF 2A	27.20	24.05
10	15.01				15.30	0.625-24 UNEF 2A	30.40	27.20
12	19.07				18.40	0.75-20 UNEF 2A	35.15	32.00
14	22.25				21.60	0.875-20 UNEF 2A	38.35	35.15
16	25.42				24.75	1-20 UNEF 2A	41.50	38.35
18	28.60				26.20	1.0625-18 UNEF 2A	44.70	41.50
20	31.77	32.20	19.25	3.35	29.40	1.1875-18 UNEF 2A	49.45	46.25
22	34.95				32.50	1.3125-18 UNEF 2A	52.60	49.45
24	38.12				35.70	1.4375-18 UNEF 2A	55.80	52.60

PCB version



Type 00



Type 07

Shell size		08 to 18	20 & 22	24
A	**Min**	32.75	31.65	30.80
	Max	33.70	32.60	31.75
B	**Min**	26.75		
	Max	27.75		
C ±0.1	**#20**	0.6		

Note: All dimensions are in millimeters (mm)

Description

- Robust bayonet coupling system withstanding high vibrations
- ABS 1054 qualified design derived from EN3645/MIL 26482 Series 2
- Environmental stainless steel version or aluminum shell
- Smallest aeronautical quadrax on the market

Ordering information

Basic series	8525	10	R	8B01	P	N	

Shell type
10: Square flange receptacle
16: Plug

Material & Plating
R: Aluminum - black anodized non conductive plating
K: Passivated stainless steel

Shell size & Contact layout: 8B01

Contact type
P: Male contact in square flange receptacle (mandatory)
S: Female contact in plug (mandatory)

Orientation: N

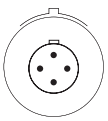
Mandatory suffix
H: Aluminum version with 3 rear teeth at 120° or Stainless steel version with rear teeth over 360°

Mandatory specification
164: Delivered with contact and with backshell
164L: Delivered without contact and with backshell
304: Delivered with contact and without backshell
304L: Delivered without contact and without backshell

Contact layout

8

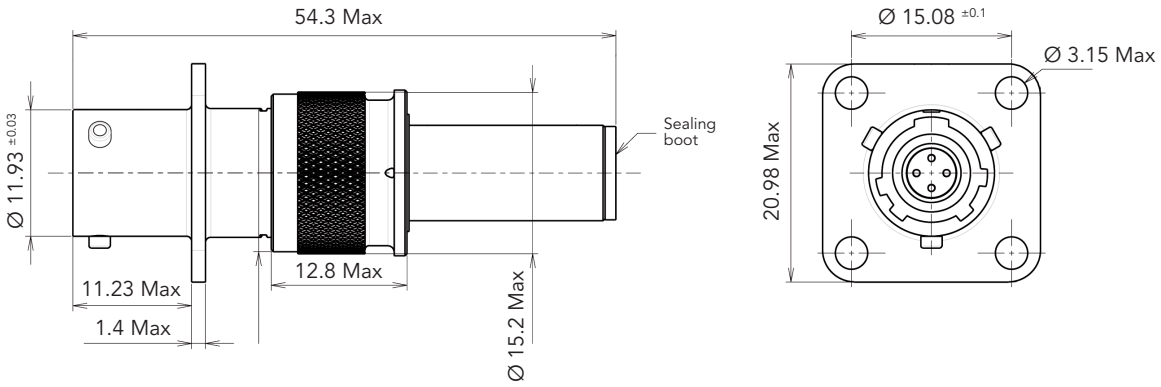
B01



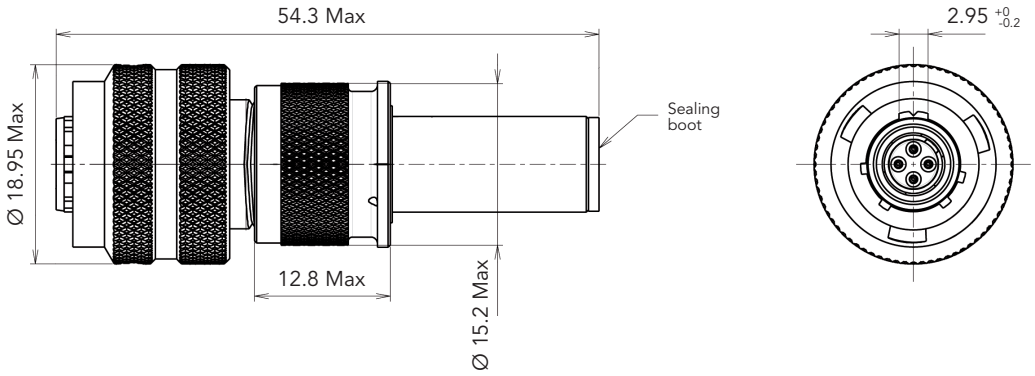
1 Quadrax

Dimensions

Quadrax square flange receptacle (type 10)

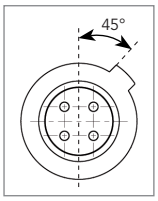


Quadrax plug (type 16)



#8 Quadrax contacts

Contact type		SOURIAU part number	ABS part number	Impedance	Release	T° Max
Crimp	Pin	ETH1-1100A	ABS0973 M08A	100Ω	Rear	125°C
	Socket	ETH1-1101A	ABS0974 F08A	100Ω	Rear	125°C



Crimp contacts are unsealed. Sealing boots are available. All contacts delivered without boot.

Recommended cable

Impedance	Reference	Cable type	Number of pairs
100Ω	ABS 1503 KD24	Star quad	2

Note: All dimensions are in millimeters (mm)

Backshell & Tooling

For more information about backshell (material, dimensions) and about tooling, please see common section p.39.