

**Amphenol**  
SINESYSTEMS

# RT360™

Circular Connectors



INTERCONNECTING YOUR WORLD



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## Description

RT360™ industrial circular connectors are multiway connector available in 6 shell sizes and 22 insert arrangements with a variety of wire gauge options. RT360 industrial circular connectors were designed to be intermateable with other industrial connector families.

Shells	Zinc Alloy
Backshells and Cable Glands	
Coupling Ring	Aluminum
Coupling Spring	Spring Stainless Steel
Interfacial Seal	Standard: NBR / Optional: Silicone
Insert	Glass-filled Thermoplast UL94-V0
Finish	Nickel
RoHS Compliant	Yes
Operating Temp	NBR: -40°C to +105°C / Silicone: -45°C to +125°C
Insulation Resistance	5000 MΩ min.
Durability	500 matings and unmatings
Vibration Resistance	per MIL-STD202 method 204
Thermal Shock	per MIL-STD202 method 207
Corrosion	Salt spray per MIL-STD 202, method 101; 48h (standard version), 96h (black anodized coupling ring) <b>*Higher salt spray resistance (200/500h) upon request.</b>
Degree of Water Protection per DIN 40050	IP67 in mated condition and in combination with sealed back shell. *Consult Factory for additional Degree of Protection

## Features & Benefits



RT Series



RTOW Series



RTHP Series

### RT Series - 20AWG

- High density arrangements from 6-41 contacts
- 6 shell sizes and 6 insert configurations
- Operating voltage of 150V
- Current rating of 7.5A with machined contacts and 5A with stamped and formed contacts
- Alternate keying positions available
- Plastic inserts with flammability rating of UL94-V0
- RoHS compliant

### RT Series - 16AWG

- 16AWG and mixed Power and Signal arrangements from 4-28 contacts
- 6 shell sizes and 11 insert configurations
- Operating voltage of 300V
- Current rating: 13A(signal contacts)
- Alternate keying positions available
- Plastic inserts with flammability rating of UL94-V0
- RoHS compliant

### RTHP Series

- Single pole High Power arrangements
- 4 shell sizes and 5 insert configurations
- 3.6mm-10mm contact sizes
- Operating voltage of 630V
- Current rating: 56A-455A (See page 7)
- Plastic inserts with flammability rating of UL94-V0
- RoHS compliant

# Part Ordering Guide - RT & RTHP Series Plugs & Receptacles

*	*	*	*	*	*	*	*	*	*
SERIES	STYLE	SHELL TYPE	INSERT ARRANGEMENT	TYPE OF CONTACTS	INSERT POLARIZATION	APPLICATION	DESIGN VARIATION	PLATING	INTERFACIAL SEAL VARIATION

## RT SERIES

### SERIES

- RT

### SHELL TYPE

- 0: Wall mount recep.
- 1: Inline receptacle
- 6: Cable plug
- 7: Jam nut recep. / rear panel mount

### SHELL SIZE

- 10, 12, 14, 16, 18, 20

### INSERT ARRANGEMENT

- See Page 7

### TYPE OF CONTACTS

- P: Pin contacts
- S: Socket contacts

### INSERT POLARIZATION (See Detail below)

- N: Standard version
- W, X, Y, Z: Custom orientation (consult Factory)

### APPLICATION

- Blank: Standard version (no o-ring)
- H: Standard version, water protection IP67

### DESIGN VARIATION

- Blank: Standard version
- EC: End cap & standard seal for wire 18~14AWG
- MM: End cap & reduced seal for wire 24~20AWG

### PLATING

- Blank: Standard is nickel plating (48hr salt spray)
- 1: Black anodized, jam nut (96hr salt spray)
- 2: Black anodized coupling ring (96hr salt spray)

### INTERFACIAL SEAL VARIATION

- Blank: Standard version, NBR
- 03: O-ring and seal gasket is silicone rubber
- 04: O-ring and seal gasket is Viton

## RTHP SERIES

### SERIES

- RT

### SHELL TYPE

- 0: Wall mount recep.
- 1: Inline receptacle
- 6: Cable plug
- 7: Jam nut recep. / rear panel mount

### SHELL SIZE

- 10, 12, 14, 16, 18, 20

### INSERT ARRANGEMENT

- See Page 7

### TYPE OF CONTACTS

- P: Pin contacts
- S: Socket contacts

### INSERT POLARIZATION

- N: Standard version

### APPLICATION

- Blank: Standard version (no o-ring)
- H: Standard version, water protection IP67

### DESIGN VARIATION

- Blank: Standard version
- EC: End cap

### PLATING

- Blank: Standard is nickel plating (48hr salt spray)
- 1: Black anodized, jam nut (96hr salt spray)
- 2: Black anodized coupling ring (96hr salt spray)

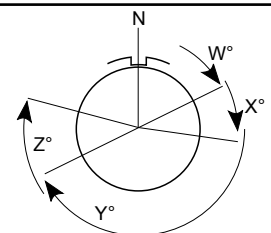
### INTERFACIAL SEAL VARIATION

- Blank: Standard version, NBR
- 03: O-ring and seal gasket is silicone rubber
- 04: O-ring and seal gasket is Viton

### Detail

#### Mating Face View of Pin Inserts

The five positions (W, X, Y, Z and Normal) differ in degree of rotation for various sizes and arrangements.



**Note:** Higher salt spray resistance (200/500h) upon request.

# Part Ordering Guide - RT Series Machined Contacts

*	*	*	*	*	*	*
<b>SERIES</b>	<b>WIRE SIZE</b>	<b>CONTACT SIZE</b>	<b>CONTACT PACKAGING</b>	<b>DESIGN VARIATION</b>	<b>GROUNDING CONTACT</b>	<b>PLATING</b>

**SERIES**

- **MP:** Male; **MS:** Female

**WIRE SIZE**

- **14:** 14AWG (.25mm); **16:** 18-16AWG (.75-1.5mm); **20:** 22-20AWG (.34-.50mm);
- **24:** 26-24AWG (.14-.25mm); **28:** 30-28AWG (.05-.08mm); **8:** 10-8AWG (6-10mm)

**CONTACT SIZE**

- **M:** Size 16; **W:** Size 20; **A:** Size 8 Power Contact

**CONTACT PACKAGING**

- **BP:** Bulk Pack only

**DESIGN VARIATION**

- **23:** Crimp Barrel; **12E0xx:** PCB tail, for RT00( wall mouting receptacle) **xx** is outer length of PCB tail; **12E7xx:** PCB tail, for RT07( Jam Nut Receptacle) **xx** is outer length of PCB tail; **RS8:** Radsok 3.6mm, crimp barrel

**GROUNDING CONTACT**

- **GE1:** For Male GND contacts (1 mm longer) add **GE1** to the part number (ex: MP16M23GE1G15); **GE1:** For Female GND contacts (1.5 mm longer) add **GE1** to the p/n (ex: MS16M23GE1G15); **GE7:** For Female Last Mate contacts (0.6 mm shorter) add **GE7** to the part number (ex: MS16M23GE7G15)

**PLATING**

- **T:** Tin; **F:** Gold Flash; **G:** Gold Plate [Thickness: 10u"]; **G30:** Gold Plate [Thickness: 30u"]; **N:** Nickel; **S:** Plating Silver (5um)





**RockSolid™**  
Connections

Hyperbolic Contact Option

- Longer contact life
- Lower contact resistance
- Immunity to shock and vibration
- Low insertion and extraction forces
- Contact area extends 360° around pins



Contact Size	Wire Range		Plating	Male P/N	Female P/N
	AWG	mm			
8	10-8	6-10	Silver	MP8A23S	MS8A23S
16	14	2.5	Silver	MP14M23S	MS14M23S
			Gold Flash	MP14M23F	MS14M23F
			Gold 30u"	MP14M23G30	MS14M23G30
16	18-16	.75-1.5	Silver	MP16M23S	MS16M23S
			Gold Flash	MP16M23F	MS16M23F
			Gold 30u"	MP16M23G30	MS16M23G30
16	22-20	.34-.50	Silver	MP20M23S	MS20M23S
			Gold Flash	MP20M23F	MS20M23F
			Gold 30u"	MP20M23G30	MS20M23G30
16	26-24	.14-.25	Silver	MP24M23S	MS24M23S
			Gold Flash	MP24M23F	MS24M23F
			Gold 30u"	MP24M23G30	MS24M23G30
20	22-20	.34-.50	Silver	MP20W23S	MS20W23S
			Gold Flash	MP20W23F	MS20W23F
			Gold 30u"	MP20W23G30	MS20W23G30
20	30-28	.05-.08	Silver	MP28W23S	MS28W23S
			Gold Flash	MP28W23F	MS28W23F
			Gold 30u"	MP28W23G30	MS28W23G30

# Part Ordering Guide - RT Series Stamped & Formed Contacts



**SERIES**

- **SP:** Male; **SS:** Female

**WIRE SIZE**

- **2.5mm:** 2.5mm; **16:** 18-16AWG (.75-1.5mm); **20:** 22-20AWG (.34-.50mm); **24:** 26-24AWG (.14-.25mm); **28:** 30-28AWG (.05-.08mm)

**CONTACT SIZE**

- **M:** Size 16; **W:** Size 20; **A:** 2.5mm contact

**CONTACT PACKAGING**

- **Blank:** 3,000 pc reel; **L:** Loose Piece

**DESIGN VARIATION**

- **1:** Crimp type

**PLATING**

- **T:** Tin; **F:** Gold Flash; **G:** Gold Plate [Thickness: 10u"]; **G30:** Gold Plate [Thickness: 30u"]; **N:** Nickel; **S:** Silver



Contact Size	Wire Range		Plating	Male P/N	Female P/N
	AWG	mm			
2.5mm	NA	2.5	Tin	SP12A1T	SS12A1T
16	14	2.5	Gold Flash	SP14M1F	SS14M1F
			Gold 10u"	SP14M1G10	SS14M1G10
			Gold 30u"	SP14M1G30	SS14M1G30
16	18-16	.75-1.5	Gold Flash	SP16M1F	SS16M1F
			Gold 10u"	SP16M1G10	SS16M1G10
			Gold 30u"	SP16M1G30	SS16M1G30
16	22-20	.34-.50	Gold Flash	SP20M1F	SS20M1F
			Gold 10u"	SP20M1G10	SS20M1G10
			Gold 30u"	SP20M1G30	SS20M1G30
16	26-24	.14-.25	Gold Flash	SP24M1F	SS24M1F
			Gold 10u"	SP24M1G10	SS24M1G10
			Gold 30u"	SP24M1G30	SS24M1G30
20	22-20	.34-.50	Gold Flash	SP20W1F	SS20W1F
			Gold 10u"	SP20W1G10	SS20W1G10
			Gold 30u"	SP20W1G30	SS20W1G30
20	26-24	.14-.25	Gold Flash	SP24W1F	SS24W1F
			Gold 10u"	SP24W1G10	SS24W1G10
			Gold 30u"	SP24W1G30	SS24W1G30

# RADSOK® Technical Information

## High Reliability

Unique RADSOK® design and construction technology create an electrical contact interface that exceeds typical interconnect requirements. Applications in Aerospace, Medical, Industrial, Automotive, Mining, Offshore and other harsh environments depend on high reliability of the Amphenol RADSOK® technology.

## Low Contact Engagement/Separation Forces

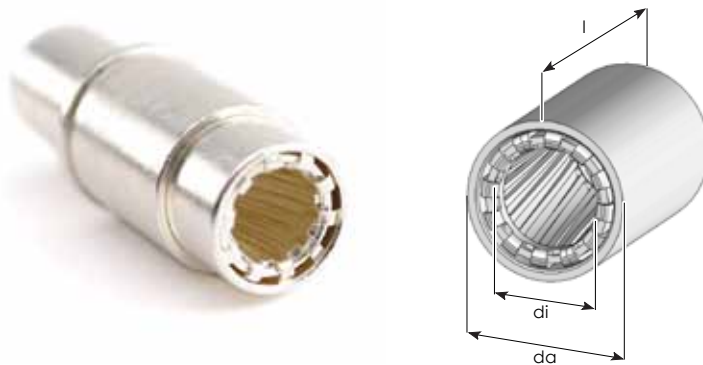
The hyperbolic lamella socket contact construction distributes normal forces over a high percentage of the mating surface. This creates a smooth, even engagement effort. This force distribution also contributes to excellent performance in vibration applications with resistance to typical fretting corrosion.

## Low Contact Resistance

The large interface between the socket lamella and pin surface result in very low contact resistance, enabling the RADSOK® contacts' high current ratings compared to traditional power contact designs.

## High Mating Cycle Durability

RADSOK® contacts with typical silver plating finishes have demonstrated survival of 20,000 mating cycles. Specialized plating and contact lubricants can extend cycle life to 200,000 mating or higher. Even with continuous exposure to harsh environmental abuse (salt, sand and high humidity), RADSOK® contacts have been tested to maintain low contact resistance beyond 10,000 mating cycles.



RTHP RADSOK®	3.6mm	6mm	8mm
Current (DIN EN 60512)	115A (23°C) 107A (40°C) 86A (80°C) 56A (120°C)	155A (23°C) 148A (40°C) 116A (80°C) 77A (120°C)	240A (23°C) 235A (40°C) 185A (80°C) 120A (120°C)
Contact Resistance	= 0.15mΩ	= 0.11mΩ	= 0.08mΩ
Mating Force	= 10N	= 20N	= 50N
m	1.5g	5.6g	14.5g
l	13.2mm	21.9mm	25.7mm
di	3.6mm	6mm	8mm
da	6mm	9.5mm	13.5mm
Plating	Grid: Silver Sleeve: Silver	Grid: Silver Sleeve: Tinned	Grid: Silver Sleeve: Tinned

**Note:** The given electrical values correspond to a single contact. With the addition of a housing, an increased number of poles or other modifications, the values must be adjusted downwards accordingly.



# Part Ordering Guide - RTHP Series Machined Contacts



**SERIES**

- **HP:** Male; **HS:** Female

**WIRE SIZE**

- **10:** 8-10mm<sup>2</sup>; **16:** 13-16mm<sup>2</sup>; **25:** 20-25mm<sup>2</sup>; **35:** 30-35mm<sup>2</sup>; **50:** 40-50mm<sup>2</sup>; **75:** 70-75mm<sup>2</sup>

**CONTACT SIZE**

- **A:** 3.6mm; **B:** 6mm; **C:** 8mm; **D:** 10mm

**CONTACT PACKAGING**

- **BP:** Bulk Pack Only

**DESIGN VARIATION**

- **C:** Crimp Barrel; **P:** PCB Tail; **S:** Screw Tail; **W:** Soldier Tail; **H:** Flat Hole Tail

**PLATING**

- **T:** Tin; **F:** Gold Flash; **G:** Gold Plate [Thickness: 10u"]; **G30:** Gold Plate [Thickness: 30u"]; **N:** Nickel; **S:** Plating Silver (5um)



Crimp Barrel / Touch Proof



Screw Tail








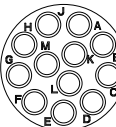


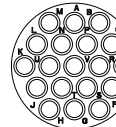
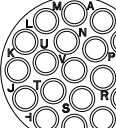
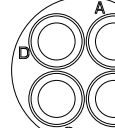
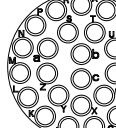

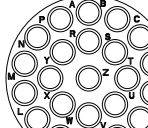
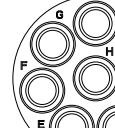
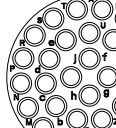



Flat Hole Tail

Contact Size	Wire Range	Plating	Male P/N	Female P/N	Type
3.6mm	8-10mm	Silver	HP10ACS	HS10ACS	Crimp
			HP10ASS	HS10ASS	Screwtail
			HP10AHS	HS10AHS	Flathole Tail
6mm	20-25mm	Silver	HP25BCS	HS25BCS	Crimp
			HP25BSS	HS25BSS	Screwtail
			HP25BHS	HS25BHS	Flathole Tail
8mm	30-35mm	Silver	HP35CCS	HS35CCS	Crimp
			HP35CSS	HS35CSS	Screwtail
			HP35CHS	HS35CHS	Flathole Tail
10mm	40-50mm	Silver	HP50DCS	HS50DCS	Crimp
			HP50DSS	HS50DSS	Screwtail
			HP50DHS	HS50DHS	Flathole Tail

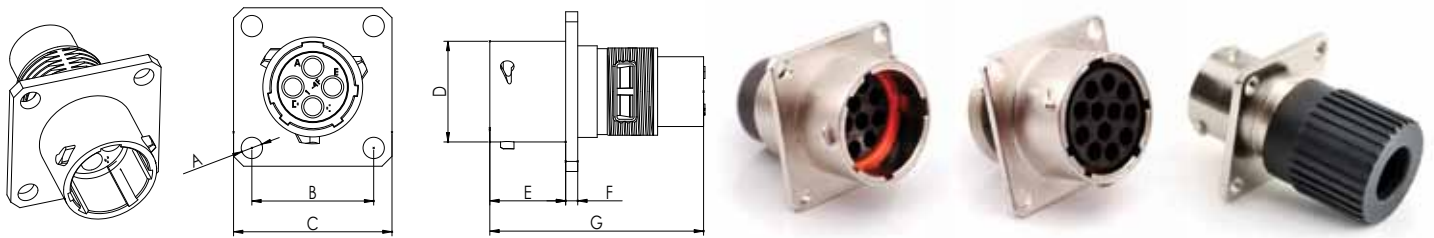
Consult Factory for additional Touch Proof options.

# Insert Configuration

RTO					RTHP Radsok®
#16 Contacts (1.6mm) 13A/250V	VDE Versions Mixed Power/Signal	Contacts (2.5mm)	#20 Contacts (1.0mm) 5A/150V <b>(1)</b> 7.5A/150V <b>(2)</b>	Single Pin Power	
<b>Note:</b> Specific to RTOW, <b>(1)</b> refers to Stamped and Formed contacts; <b>(2)</b> refers to Machined contacts.					
Shell 10	 10-4	 10-2 2x#16(13A)/2X#20(5A) 350V AC/DC	N/A	 10-6	N/A
Shell 12	 12-3	 12-8	N/A	 12-10	 12-1 1x3.6mm (107A) 600V AC/DC
Shell 14	 14-12 1x3.6mm	 14-2 2x2.5(23A)/2x#16(13A) 350V AC/DC	 14-4 (23A) 350V AC/DC	 14-19	N/A
Shell 16	 16-19	 16-4 4x 3.6(46A) 400 AC/DC	N/A	 16-26	 16-1 1x6mm (148A) 600V AC/DC
Shell 18	 18-23	N/A	 18-8 (23A) 375V AC/DC	 18-32	 18-1 1x8mm (235A) 600V AC/DC

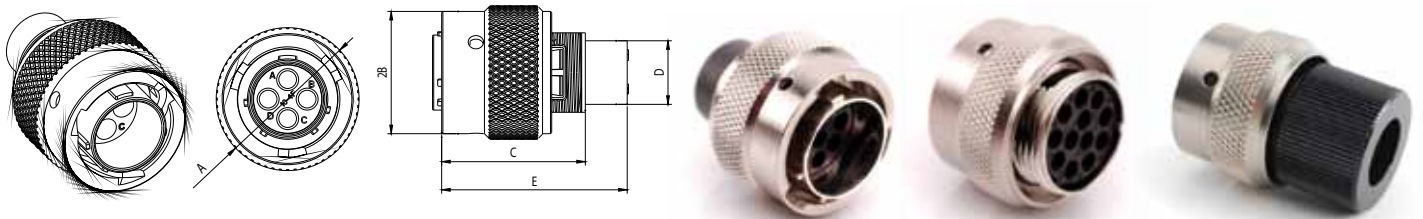
All dimensions are in mm.

## Box and Wall Mounts



	A	B	C	D	E	F	G	G + End Cap Male	G + End Cap Female
Shell 10	3.20	18.30	23.80	15.00	11.30	1.80	31.85	40.65	32.70
Shell 12	3.20	20.62	26.20	19.00	11.30	1.80	31.85		
Shell 14	3.20	23.00	28.60	22.20	11.30	1.80	31.85		
Shell 16	3.20	24.60	31.00	25.30	11.30	1.80	31.85		
Shell 18	3.20	26.95	33.30	28.55	11.30	1.80	31.85		

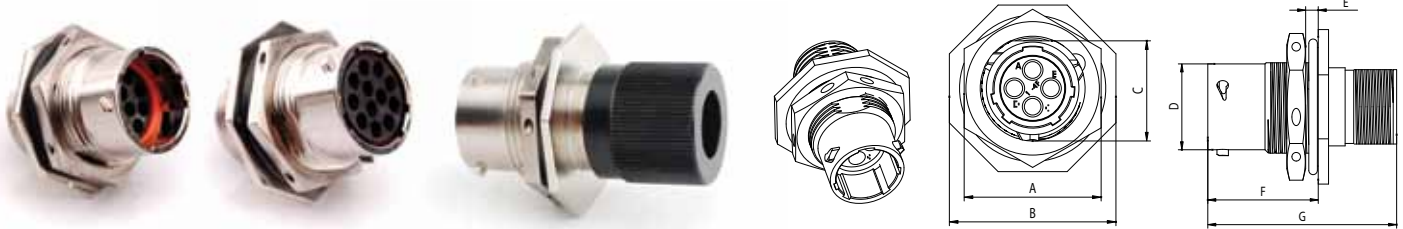
## Straight Plugs



	A	B	C	D	E	H + End Cap Male	H + End Cap Female
Shell 10	21.80	20.00	23.50	10.40	30.35	40.65	32.70
Shell 12	26.10	23.60	23.50	-	30.35		
Shell 14	29.30	26.80	25.32	16.65	32.17		
Shell 16	32.45	30.00	23.50	19.50	30.35		
Shell 18	35.25	33.30	23.50	21.90	30.45		

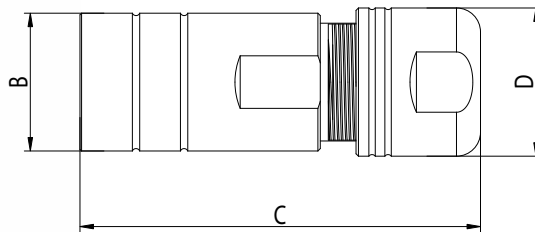
All dimensions are in mm.

## Jam Nut Receptacle



	A	B	C	D	E	F	G	G + End Cap Male	G + End Cap Female
Shell 10	22.20	27.00	16.23	15.00	2.20	19.30	33.00	40.70	40.70
Shell 12	20.50	27.00	31.75	19.00	2.20	19.30	33.00		
Shell 14	23.60	30.20	34.90	22.20	2.20	19.30	33.00		
Shell 16	26.85	33.30	38.10	25.30	3.70	19.30	33.30		
Shell 18	29.86	36.50	41.30	28.55	2.50	19.30	33.00		

## Cord Grips

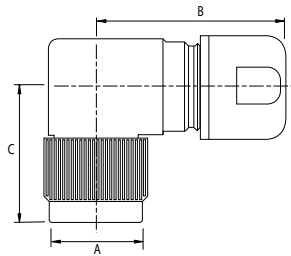


EMC Grounding Ring included

	Amphenol P/N	Cable Range	A (Thread)	B	C
Shell 10	RTOL-10CG-S1	3 to 6.5	9/16-24 UNEF	50	18.50
	RTOL-10CG-S2	5 to 8.5			
Shell 12	RTOL-12CG-S1	6 to 10.5	11/16-24 UNEF	54	23.00
	RTOL-12CG-S2	8 to 12.5			
Shell 14	RTOL-14CG-S1	6 to 10.5	13/16-20 UNEF	54	23.00
	RTOL-14CG-S2	8 to 12.5			
Shell 16	RTOL-16CG-S1	9.5 to 14.5	15/16-20 UNEF	60	26.50
	RTOL-16CG-S2	13.5 to 18			
Shell 18	RTOL-18CG-S1	9.5 to 14.5	1" 1/16-18 UNEF	60	28.20
	RTOL-18CG-S2	13.5 to 18			

All dimensions are in mm.

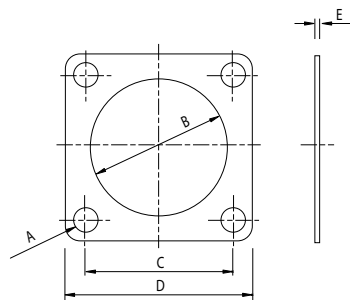
## 90° Cord Grips



EMC Grounding Ring included

	Amphenol P/N	Cable Range	A (Thread)	B	C
Shell 10	RTOB-10CG-S1	3 to 6.5	9/16-24 UNEF	42.00	30.20
	RTOB-10CG-S2	5 to 8.5			
Shell 12	RTOB-12CG-S1	6 to 10.5	11/16-24 UNEF		
	RTOB-12CG-S2	8 to 12.5			
Shell 14	RTOB-14CG-S1	6 to 10.5	13/16-20 UNEF		
	RTOB-14CG-S2	8 to 12.5			
Shell 16	RTOB-16CG-S1	9.5 to 14.5	15/16-20 UNEF		
	RTOB-16CG-S2	13.5 to 17			
Shell 18	RTOB-18CG-S1	9.5 to 14.5	1" 1/16-18 UNEF		
	RTOB-18CG-S2	13.5 to 17			

## Gaskets



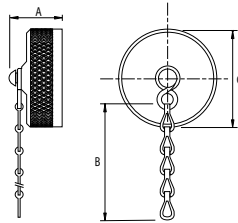
	Amphenol P/N	$\varnothing A \pm 0.1$	$\varnothing B \pm 0.01$	$C \pm 0.25$	$D \pm 0.25$	$E \pm 0.2$
Shell 10	RTFD10B	3.3	15.9	18.3	23.8	0.8
Shell 12	RTFD12B		19.0	20.6	26.2	
Shell 14	RTFD14B		22.2	23.0	28.6	
Shell 16	RTFD16B		25.4	24.6	31.0	
Shell 18	RTFD18B		28.6	27.0	33.3	

Gasket material is NBR. For other options, please consult factory.

All dimensions are in mm.

## Accessories & Tooling

### Dust Caps



### Sealing Plugs



Amphenol P/N		A max.	B	C max.
Shell 10	RT010DCG	20.8	42.00	30.20
Shell 12	RT012DCG	24.9		
Shell 14	RT014DCG	28.1		
Shell 16	RT016DCG	31.3		
Shell 18	RT018DCG	34.4		

Amphenol P/N		mm
20AWG	CA-4020-59	0.5
16AWG	CA-4016-59	1.5

### Stamp Contact Tool

(for Stamped and Formed Contacts)



Amphenol P/N
MFX-3958

### Universal Hand Crimp Tool

(for Machined Contacts)



Amphenol P/N
MFX-3959

### Contact Extraction Tool



Size	Amphenol P/N
2.5mm	QXRT12S
#16	QXRT16
#20	QXRT20

All dimensions are in mm.

## Crimp Die (for Stamped and Formed Contacts)



Amphenol P/N

MFX-3957

## Pneumatic Crimp Tool (for Machined Contacts)



Amphenol P/N

MFX-3960

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