



eco|mate®
AQUARIUS™
Waterproof Connectors



We Are Amphenol

Global Interconnect Solution Supplier

For over 80 years Amphenol has enjoyed success as the interconnection technology provider of choice for industry leading companies around the world. Our organization works with leading manufacturers across a wide range of applications - including Energy Generation & Distribution, Transportation, Heavy Equipment, Factory Automation, Wireless Outdoor, Information Technology and Data Communications Equipment, Mobile Devices, Mobile Networks, Broadband Communication, Military and Commercial Aerospace, Industrial, Automotive and Chip Card Readers - enabling smarter, faster and better technologies to connect products to customer solutions.

Our engineers design innovative combinations of industry standard connectors and application specific shielding components to create assembly systems that set the standards for performance, reliability, and cost effectiveness. Our engineering, materials, and manufacturing organizations meet the high standards imposed by ISO 9001:2008 as well as many customer specific quality systems. Our performance has earned us ship to stock and world class performance awards from many major OEMs.

We are one of the largest interconnect solution suppliers in the world and supply a wide range of product solutions globally. The industrial market footprint of Amphenol covers more than 30 countries.



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eco|mate® Aquarius

Waterproof Connectors

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Introduction to eco|mate® Aquarius

Quick Reliable Mating

Bayonet Coupling

With a quick twist of the bayonet coupling system, these connectors provide positive tactile feedback to insure confident mating. This feature also reduces time and labor during installation.

Economical and Flexible

Mixed Power & Signal Layouts

Power and signal contacts can be combined in a variety of inserts providing a highly flexible interconnect solution to reduce system complexity and minimize installation costs.

Waterproof

IP68/69k in mated condition

Corrosion Resistant

Salt Spray >500 hours

Designed to withstand climate ingress and exposure to salt spray or a corrosive atmosphere while still maintaining mechanical and electrical functionality.

Wide Ranging Contact System

Flexible Contact Solutions

Our contact system offers the flexibility of using a wide variety of contact styles and wire gauges within various connectors, shell sizes and insert layouts, providing customers with a total solution.

eco|mate® Aquarius

Waterproof Connectors

Typical Applications



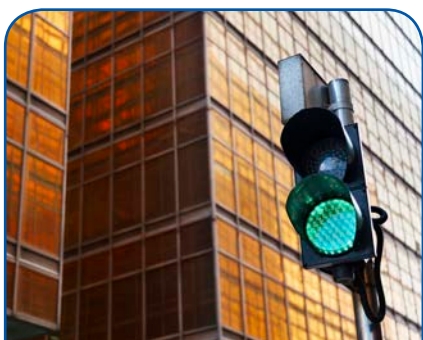
Marine



Telecom -Data Infrastructure



Building Automation & Control



Traffic Control



Energy - Power



Off Road



Mining - Railway



Instrumentation Measurement

eco|mate® Aquarius

Waterproof Connectors



Overview

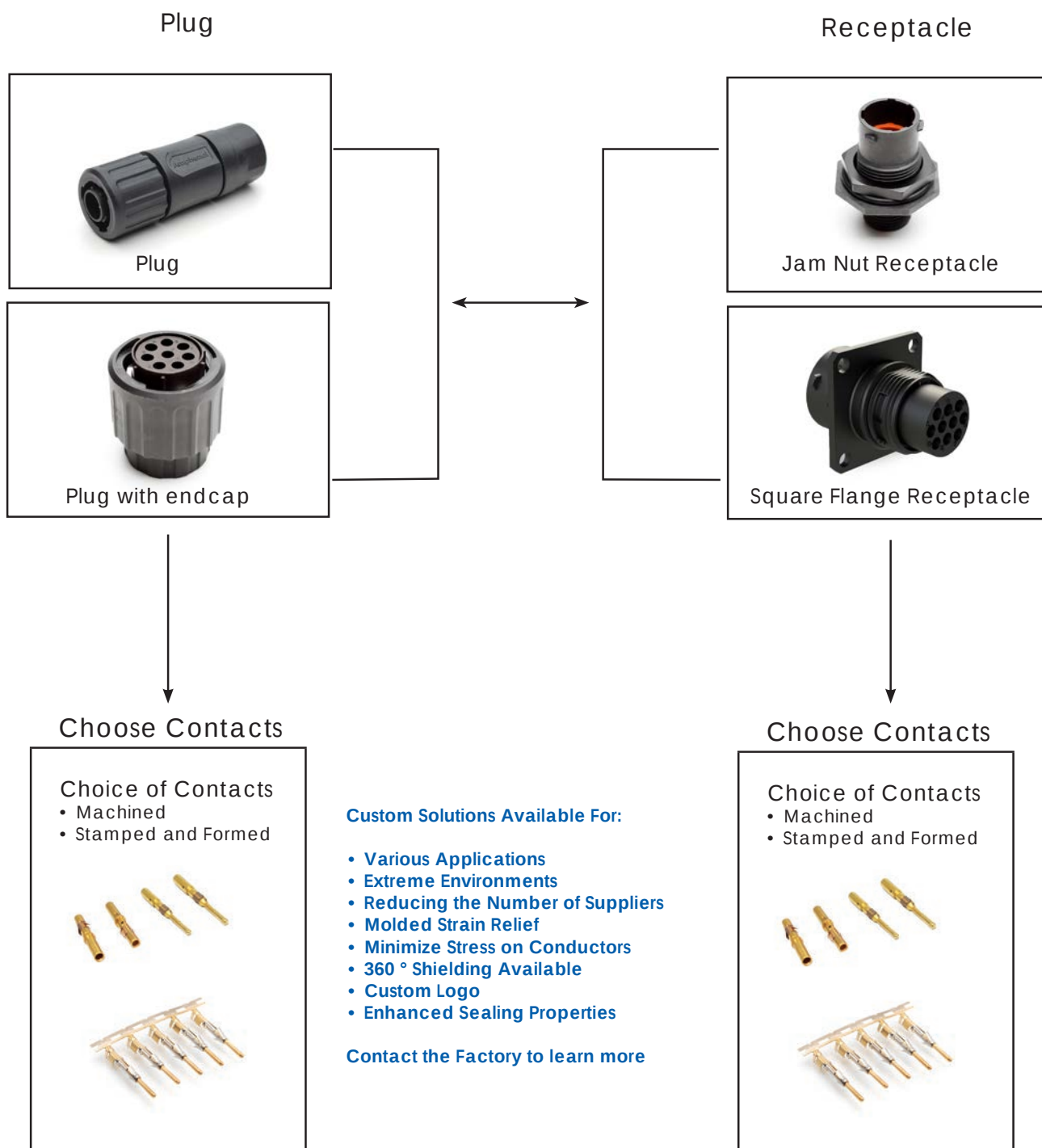
ecomate Aquarius™ - Technical Specifications

IP Rating	Dynamic IP68/69K
Flammability Rating	UL94-VO
Fluid Resistance	Gas, oil, mineral oil, acid bath, basic bath
RoHS Compliant	RoHS All materials meet the requirements of the European Directive 2002/95/EC, Issue 13.2.2003
Approvals	UL Compliant
Temperature Range	-40°C to +105°C Standard Products with NBR Seal -40°C to +125°C Standard Products with Silicone Seal
Max. Current (AMP)	23A
Max. Voltage Rating (AC/DC)	500V
Contact Resistance	#16 <6 mΩ #20 <15 mΩ 2.5mm < 5 mΩ

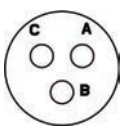
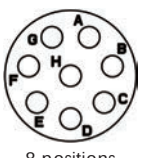
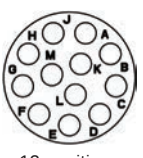
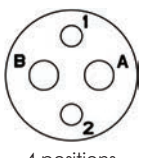
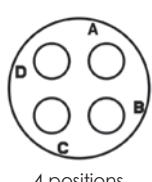
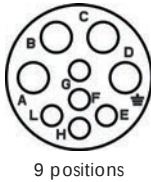
Min. Mating Cycles	>500 mating cycles
Vibration	10-2000 Hz, level of 20 G's
Test Voltage Rating	1500V
Overvoltage Category	III
Strain Relief Clamp Range	1.5 - 14.0mm
Wire Range	28-12AWG
Housing Body	Thermoplastic UL94-VO
Insulation Inserts	Thermoplastic, UL94-VO
Insulation Resistance	5000 megohms min. of 25°C
Contacts	Copper Alloy (Gold, Tin & Silver Plating are available)
Sealing Material	SR/NBR
Thermal Shock	No cracking, chipping or leaking after 20 test cycles from -55°C to 125°C

High Performance Cost Effective Waterproof Connectors

Connector Configurations

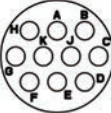
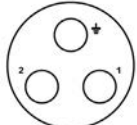
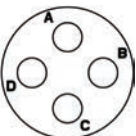
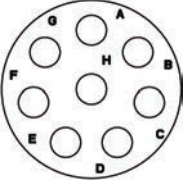
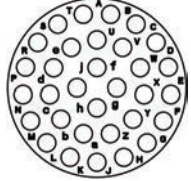


Insert Arrangements

Shell Size	Contact #16 (Ø 1.6)			Mixed Power & Signal
8	Consult factory			Consult factory
10	 3 positions Contact #16 (Ø 1.6) 13A 500V see page 21	 4 positions Contact #16 (Ø 1.6) 13A 500V see page 47	Consult factory	 4 positions Contacts #16 (Ø 1.6) & #20 (Ø 1.0) 13A & 20# 5A/7.5A (machined) 500V AC/DC see page 73
12	 3 positions Contact #16 (Ø 1.6) 13A 600V see page 27	 4 positions Contact #16 (Ø 1.6) 13A 500V see page 55	 8 positions Contact #16 (Ø 1.6) 13A 500V see page 113	 4 positions Contacts #16 (Ø 1.6) & #20 (Ø 1.0) 23A & 20# 5A/7.5A (machined) 350V AC/DC see page 83
14	 7 positions Contact #16 (Ø 1.6) 13A 500V AC/DC see page 107	 8 positions Contact #16 (Ø 1.6) 13A 500V AC/DC see page 121	 12 positions Contact #16 (Ø 1.6) 13A 500V see page 151	 4 positions Contacts 2.5mm & 16 (Ø 1.6) 23A & 13A 500V AC/DC see page 91
16	 19 positions Contact #16 (Ø 1.6) 13A 500V page 167	 4 positions Contact #8 (Ø 3.6) 45A 500V AC/DC page 67	Consult factory	 9 positions Contact 2.5mm & #16 (Ø 1.6) 23A & 13A 350V AC/DC page 135
18	 23 positions Contact #16 (Ø 1.6) 13A 500V page 175	Consult factory		

Connector Guide

Insert Arrangements (con't)

Shell Size	Contact #8	Contact 2.5mm	Contact #20 (Ø 1.0)	
8	Consult factory	Consult factory	 3 positions Contact #16 (Ø 1.6) 7A 250V see page 15	 4 positions Contact #16 (Ø 1.6) 7A 250V see page 41
10			 6 positions Contact #20 (Ø 1.0) 5A/7.5A (machined) 250V see page 99	Consult factory
12			 10 positions Contact #20 (Ø 1.0) 5A/7.5A (machined) 250V see page 143	
14	 3 positions Contact #8 45A 600V AC/DC see page 35	 4 positions Contact 2.5mm 23A 500V AC/DC see page 61	 19 positions Contact #20 (Ø 1.0) 5A, 7.5A (machined) 250V see page 159	
16	Consult factory		 26 positions Contact #20 (Ø 1.0) 5A, 7.5A (machined) 250V page 183	
18	 8 positions Contact 2.5mm 23A 500V AC/DC page 129		 32 positions Contact #20 (Ø 1.0) 5A/7.5A (machined) 250V page 191	

Insert Arrangements are Pin Faceview

Connector Solutions

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23 POSITIONS 13A / 500V	175
26 POSITIONS 7.5A / 5A / 150V	183
32 POSITIONS 7.5A / 5A / 150V	191

STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

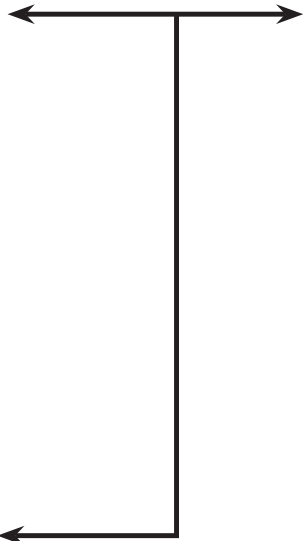
Jam Nut Receptacles



Square Flange Receptacles



Plugs



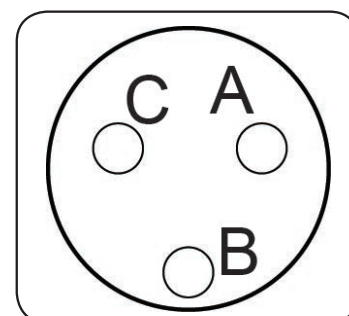
SEE TABLE ON NEXT PAGE FOR PART DETAILS

CONTACTS SOLD SEPARATELY SEE PAGE 18

Shell Size: 8 Number of Contacts: 3 Contact Size: 20, Loaded
Sealing: IP67 /IP69k Salt Spray: 500h

eco|mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +105°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers - Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS78N3P	Receptacle, jam nut, 3 positions, size 8, pin contact (loaded), NBR seal	-40C to 105C	1
RTS78N3S	Receptacle, jam nut, 3 positions, size 8, socket (loaded) contact NBR seal	-40C to 105C	2
RTS08N3P	Receptacle, square flange, 3 positions, size 8, pin contact (loaded), NBR Seal	-40C to 105C	3
RTS08N3S	Receptacle, square flange, 3 positions, size 8, socket contact (loaded), NBR Seal	-40C to 105C	4

Connector Part Numbers - Plugs

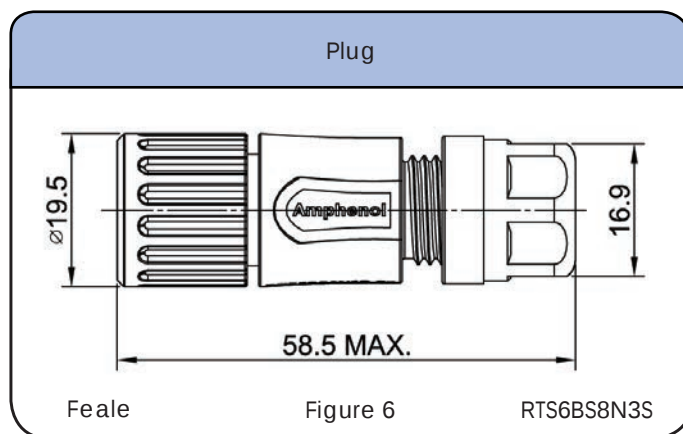
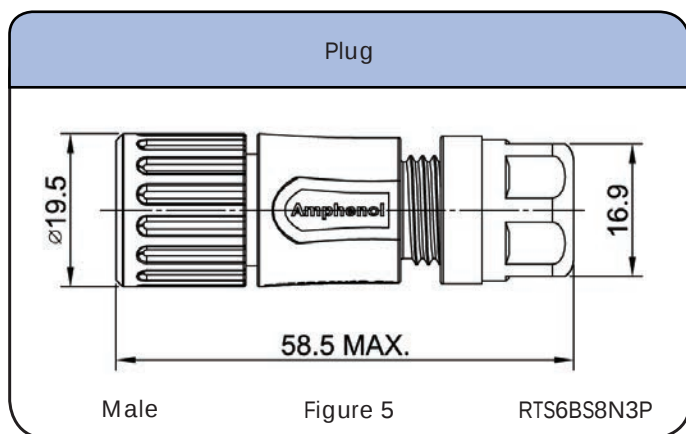
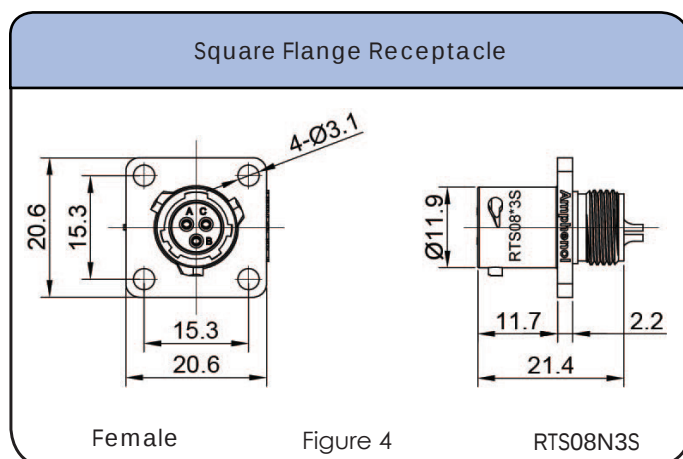
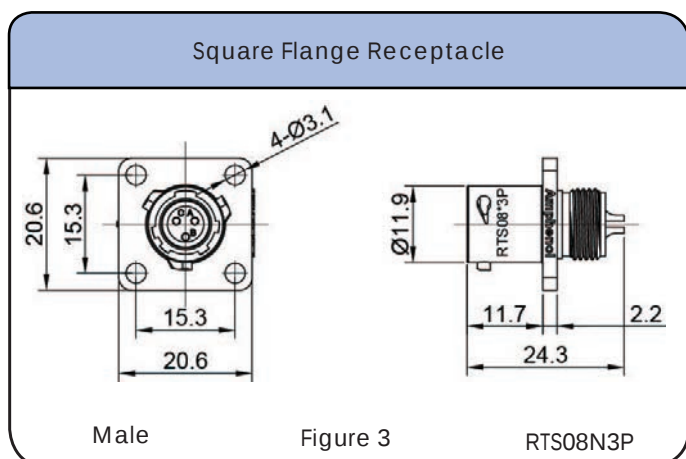
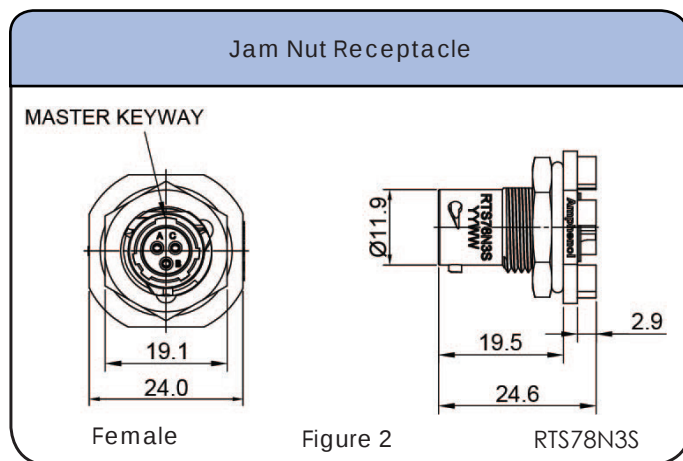
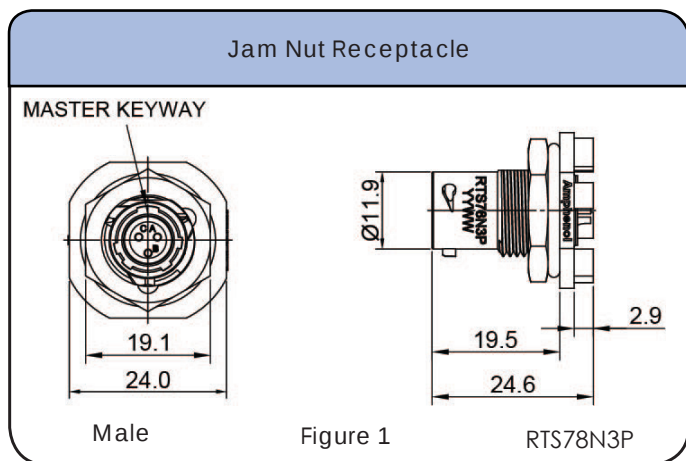
PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS8N3P	Straight plug with cord grip, 3 positions, size 8, pin contact (loaded), NBR seal	-40C to 105C	5
RTS6BS8N3S	Straight plug with cord grip, 3 positions, size 8, socket contact (loaded), NBR seal	-40C to 105C	6

Contacts supplied separately see page 18

Shell Size: 8 Number of Contacts: 3
 Sealing: IP67 /IP69k Salt Spray: 500h

Contact Size: 20

Dimensions Receptacles / Plugs



Shell Size: 8 Number of Contacts: 3 Contact Size: 20
Sealing: IP67 / IP69k Salt Spray: 500h

Accessories

Coding Color Ring, Yellow, Size 8



RTS8CCRY

Coding Color Ring, Green, Size 8



RTS8CCRG

Coding Color ring, Red, Size 8

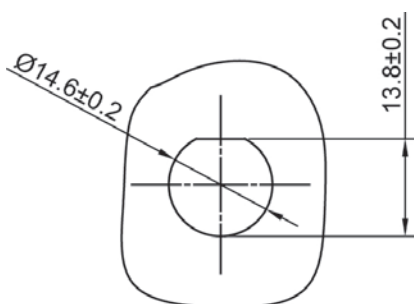


RTS8CCRR

Sealing Plug, Size 20



AT13-204-2005



PANEL CUT OUT REFERENCE
PANEL THICKNESS : 3.2MM MAX.

Shell Size: 8 Number of Contacts: 3 Contact Size: 20
 Sealing: IP67 /IP69k Salt Spray: 500h

Contacts Machined



Crimp Contacts, Machined

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
MP20W23F	MS20W23F	22-20	.34-.50	Gold Flash
MP20W23G5	MS20W23G5	22-20	.34-.50	Gold 5μ"
MP20W23G10	MS20W23G10	22-20	.34-.50	Gold 10μ"
MP20W23G15	MS20W23G15	22-20	.34-.50	Gold 15μ"
MP20W23G30	MS20W23G30	22-20	.34-.50	Gold 30μ"
MP24W23F	MS24W23F	26-24	.13-.25	Gold Flash
MP24W23G5	MS24W23G5	26-24	.13-.25	Gold 5μ"
MP24W23G10	MS24W23G10	26-24	.13-.25	Gold 10μ"
MP24W23G15	MS24W23G15	26-24	.13-.25	Gold 15μ"
MP24W23G30	MS24W23G30	26-24	.13-.25	Gold 30μ"
MP28W23F	MS28W23F	30-28	.05-.08	Gold Flash
MP28W23G5	MS28W23G5	30-28	.05-.08	Gold 5μ"
MP28W23G10	MS28W23G10	30-28	.05-.08	Gold 10μ"
MP28W23G15	MS28W23G15	30-28	.05-.08	Gold 15μ"
MP28W23G30	MS28W23G30	30-28	.05-.08	Gold 30μ"

Tools

Contact Extraction Tool,
#20 (Ø 1.6) Contact



QXRT20

Hand Crimp Tool for
Machined Contacts



MF3-3959

Pneumatic Crimp Tool for
Machined Contact



MF3-3960

Shell Size: 8 Number of Contacts: 3 Contact Size: 20
Sealing: IP67 /IP69k Salt Spray: 500h

Contacts Stamped & Formed



Stamped & Formed Contacts

Crimp Contacts, Stamped & Formed

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
SP20W2F	SS20W2F	22-20	.34-.50	Gold Flash
SP20W2G5	SS20W2G5	22-20	.34-.50	Gold 5μ"
SP20W2G10	SS20W2G10	22-20	.34-.50	Gold 10μ"
SP20W2G15	SS20W2G15	22-20	.34-.50	Gold 15μ"
SP20W2G30	SS20W2G30	22-20	.34-.50	Gold 30μ"
SP24W2F	SS24W2F	26-24	.14-.25	Gold Flash
SP24W2G5	SS24W2G5	26-24	.14-.25	Gold 5μ"
SP24W2G10	SS24W2G10	26-24	.14-.25	Gold 10μ"
SP24W2G15	SS24W2G15	26-24	.14-.25	Gold 15μ"
SP24W2G30	SS24W2G30	26-24	.14-.25	Gold 30μ"
SP28W2F	SS28W2F	30-28	.05-.08	Gold Flash
SP28W2G5	SS28W2G5	30-28	.05-.08	Gold 5μ"
SP28W2G10	SS28W2G10	30-28	.05-.08	Gold 10μ"
SP28W2G15	SS28W2G15	30-28	.05-.08	Gold 15μ"
SP28W2G30	SS28W2G30	30-28	.05-.08	Gold 30μ"

Tools

Contact Extraction Tool,
#20 (Ø 1.6) Contact



QXRT20

Hand Tool, Stamped & Formed
Contact, Size 20 20-14AWG



MF3-3958

Crimp Die for Stamped &
Formed Contact



MF3-3957

STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



RTS710N3P03



RTS710N3S03

Square Flange Receptacles



RTS010N3P03



RTS010N3S03

Plugs



RTS6BS10N3P03



RTS6BS10N3S03

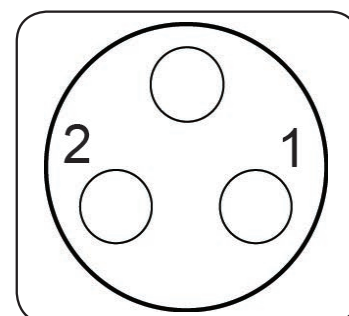
SEE TABLE ON NEXT PAGE FOR PART DETAILS

CONTACTS SOLD SEPARATELY SEE PAGE 24

Shell Size: 10 Number of Contacts: 3 Contact Size: 16
 Sealing: IP67 / IP69k Salt Spray: 500h

eco|mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +125°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers -Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS710N3P03	Receptacle, jam nut, 3 positions, size 10, pin contact, silicone rubber seal	-40 to 125°C	1
RTS710N3S03	Receptacle, jam nut, 3 positions, size 10, socket contact, silicone rubber seal	-40 to 125°C	2
RTS010N3P03	Receptacle, square flange, 3 positions, size 10, pin contact, silicone rubber seal	-40 to 125°C	3
RTS010N3S03	Receptacle, square flange, 3 positions, size 10, socket contact, silicone rubber seal	-40 to 125°C	4

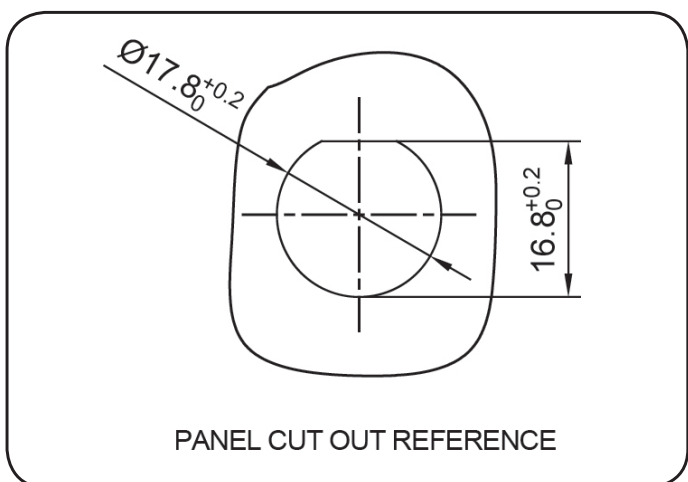
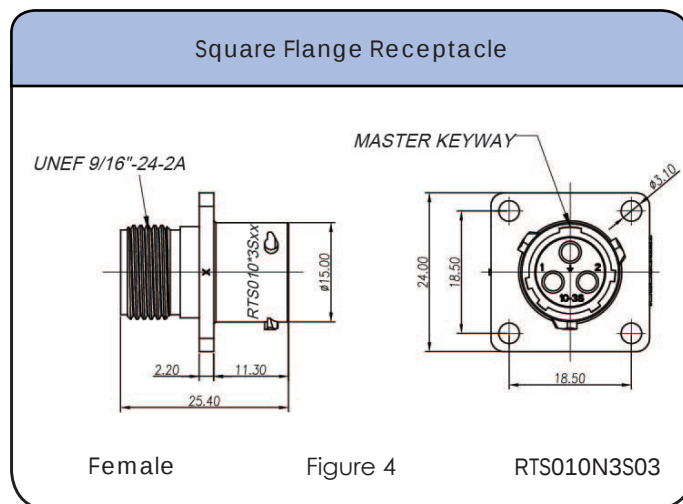
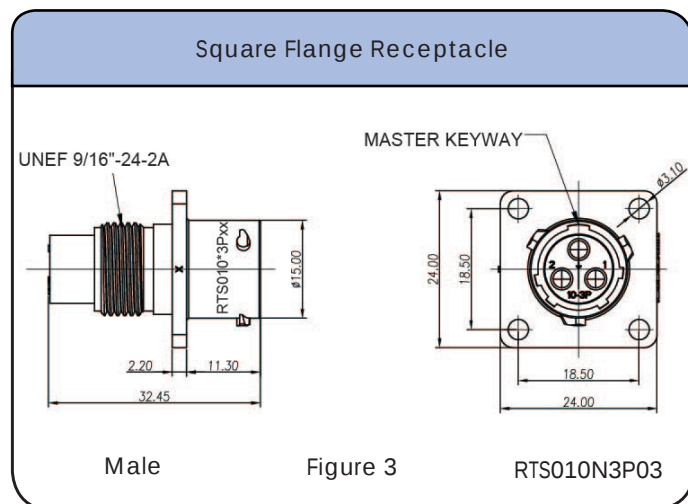
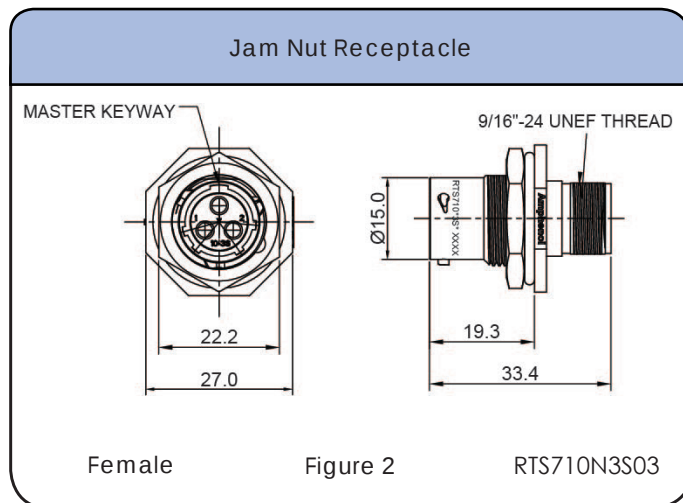
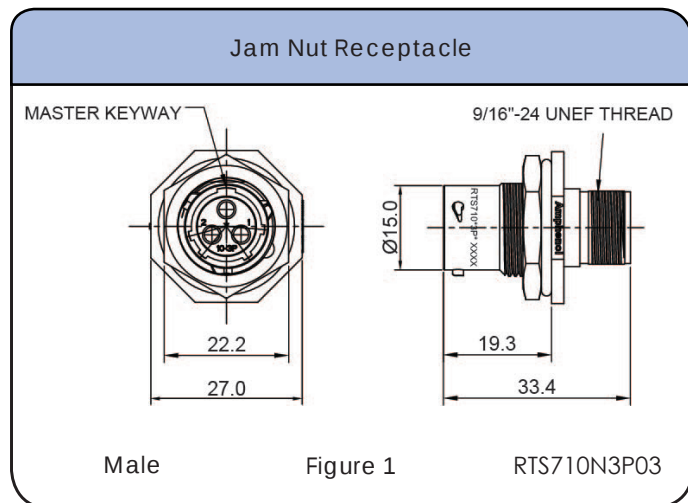
Connector Part Numbers -Plugs

PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS10N3P03	Straight plug with cord grip, 3 positions, size 10, pin contact, silicone rubber seal	-40 to 125°C	5
RTS6BS10N3S03	Straight plug with cord grip, 3 positions, size 10, socket contact, silicone rubber seal	-40 to 125°C	6

Contacts supplied separately see page 24

Shell Size: 10 Number of Contacts: 3 Contact Size: 16
 Sealing: IP67 / IP69k Salt Spray: 500h

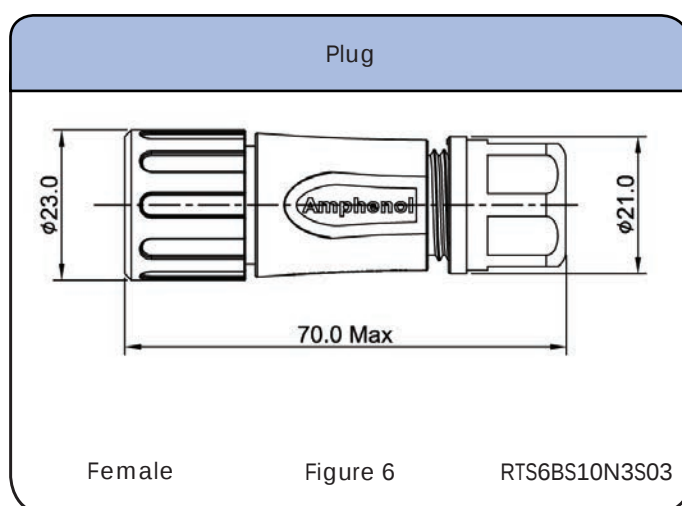
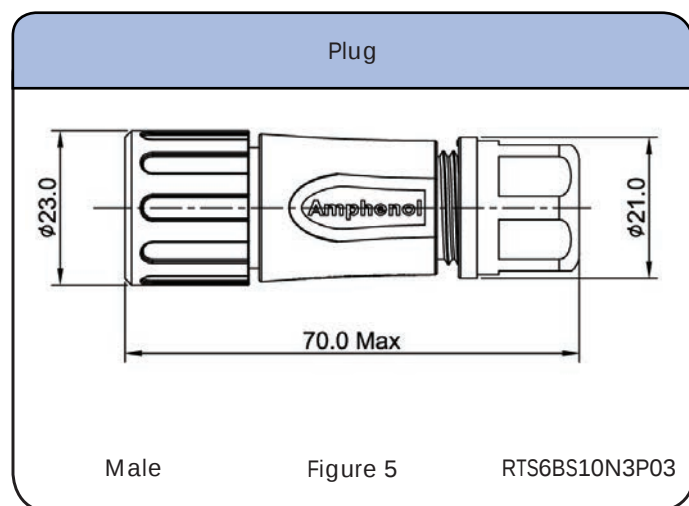
Dimensions Jam Nut / Square Flange Receptacles



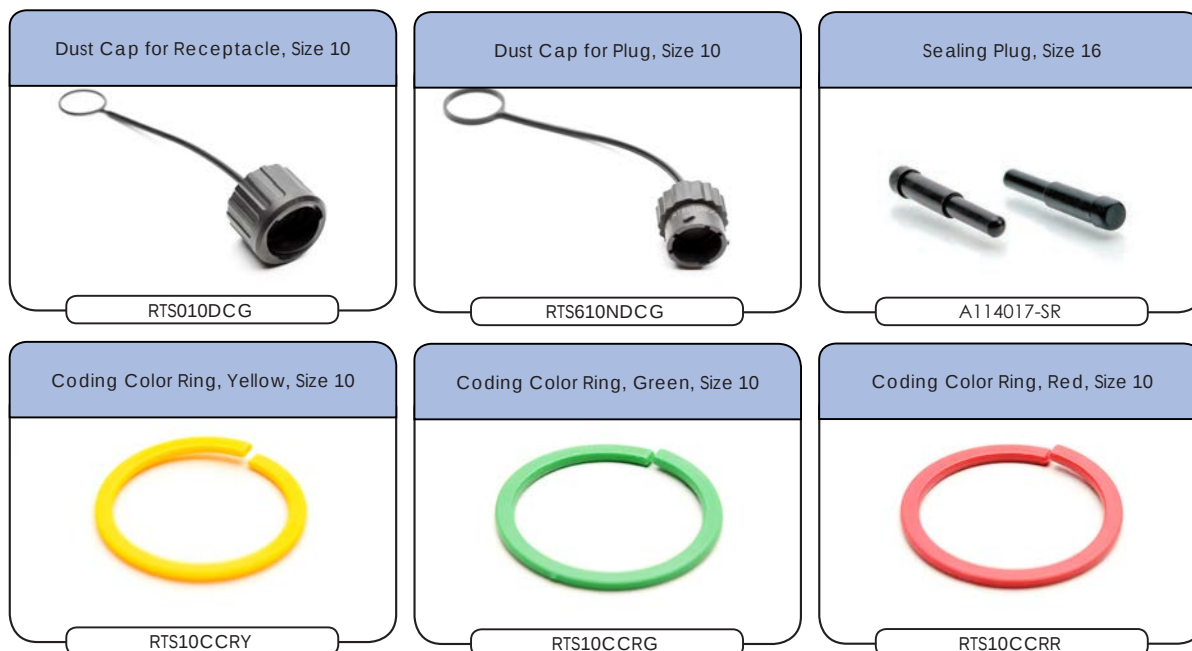
Shell Size: 10 Number of Contacts: 3
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 16

Dimensions Plugs



Accessories



Shell Size: 10 Number of Contacts: 3 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

Contacts Machined



Crimp Contacts, Machined

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
MP14M23F	MS14M23F	14	2.0-2.5	Gold Flash
MP14M23G5	MS14M23G5	14	2.0-2.5	Gold 5μ"
MP14M23G10	MS14M23G10	14	2.0-2.5	Gold 10μ"
MP14M23G15	MS14M23G15	14	2.0-2.5	Gold 15μ"
MP14M23G30	MS14M23G30	14	2.0-2.5	Gold 30μ"
MP16M23F	MS16M23F	18-16	.75-1.5	Gold Flash
MP16M23G5	MS16M23G5	18-16	.75-1.5	Gold 5μ"
MP16M23G10	MS16M23G10	18-16	.75-1.5	Gold 10μ"
MP16M23G15	MS16M23G15	18-16	.75-1.5	Gold 15μ"
MP16M23G30	MS16M23G30	18-16	.75-1.5	Gold 30μ"
MP20M23F	MS20M23F	22-20	.34-.50	Gold Flash
MP20M23G5	MS20M23G5	22-20	.34-.50	Gold 5μ"
MP20M23G10	MS20M23G10	22-20	.34-.50	Gold 10μ"
MP20M23G15	MS20M23G15	22-20	.34-.50	Gold 15μ"
MP20M23G30	MS20M23G30	22-20	.34-.50	Gold 30μ"
MP24M23F	MS24M23F	26-24	.14-.25	Gold Flash
MP24M23G5	MS24M23G5	26-24	.14-.25	Gold 5μ"
MP24M23G10	MS24M23G10	26-24	.14-.25	Gold 10μ"
MP24M23G15	MS24M23G15	26-24	.14-.25	Gold 15μ"
MP24M23G30	MS24M23G30	26-24	.14-.25	Gold 30μ"

Tools

Contact Extraction Tool,
#16 (Ø 1.6) Contact



QXRT16

Hand Crimp Tool for
Machined Contacts



MX-3959

Pneumatic Crimp Tool for
Machined Contacts



MX-3960

Shell Size: 10 Number of Contacts:3 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

Contacts Stamped & Formed



Stamped & Formed Contacts

Crimp Contacts, Stamped & Formed

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
SP14M2F	SS14M2F	14	2.0-2.5	Gold Flash
SP14M2G5	SS14M2G5	14	2.0-2.5	Gold 5μ"
SP14M2G10	SS14M2G10	14	2.0-2.5	Gold 10μ"
SP14M2G15	SS14M2G15	14	2.0-2.5	Gold 15μ"
SP14M2G30	SS14M2G30	14	2.0-2.5	Gold 30μ"
SP16M2F	SS16M2F	18-16	.75-1.5	Gold Flash
SP16M2G5	SS16M2G5	18-16	.75-1.5	Gold 5μ"
SP16M2G10	SS16M2G10	18-16	.75-1.5	Gold 10μ"
SP16M2G15	SS16M2G15	18-16	.75-1.5	Gold 15μ"
SP16M2G30	SS16M2G30	18-16	.75-1.5	Gold 30μ"
SP20M2F	SS20M2F	22-20	.34-.50	Gold Flash
SP20M2G5	SS20M2G5	22-20	.34-.50	Gold 5μ"
SP20M2G10	SS20M2G10	22-20	.34-.50	Gold 10μ"
SP20M2G15	SS20M2G15	22-20	.34-.50	Gold 15μ"
SP20M2G30	SS20M1G30	22-20	.34-.50	Gold 30μ"
SP24M2F	SS24M2F	26-24	.14-.25	Gold Flash
SP24M2G5	SS24M2G5	26-24	.14-.25	Gold 5μ"
SP24M2G10	SS24M2G10	26-24	.14-.25	Gold 10μ"
SP24M2G15	SS24M2G15	26-24	.14-.25	Gold 15μ"
SP24M2G30	SS24M2G30	26-24	.14-.25	Gold 30μ"

Tools

Contact Extraction Tool,
#16 (Ø 1.6) Contact



QXRT16

Hand Tool, Stamped & Formed
Contact, 16 AWG



MFX-3954

Crimp Die for Stamped &
Formed Contact



MFX-3957

STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



RTS712N3P03



RTS712N3S03



RTS712N3PHEC03

Square Flange Receptacles



RTS012N3P03



RTS012N3S03



RTS012N3PHEC03



RTS012N3SHEC03

Plugs



RTS6BS12N3P03



RTS6BS12N3S03



RTS6BS12N3PHEC03



RTS6BS12N3SHEC03

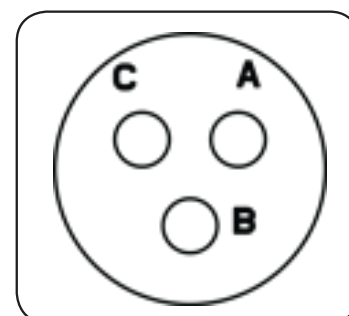
SEE TABLE ON NEXT PAGE FOR PART DETAILS

CONTACTS SOLD SEPARATELY SEE PAGE 32

Shell Size: 12 Number of Contacts: 3 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

eco|mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +125°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers -Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS712N3P03	Receptacle, jam nut, 3 positions, size 12, pin contact , silicone rubber seal	-40 to 125°C	1
RTS712N3PHEC03	Receptacle, jam nut, 3 positions, size 12, pin contact , silicone rubber seal, endcap	-40 to 125°C	3
RTS712N3S03	Receptacle, jam nut, 3 positions, size 12, socket contact , silicone rubber seal	-40 to 125°C	2
RTS012N3P03	Receptacle, square flange, 3 positions, size 12, pin contact, silicone rubber seal	-40 to 125°C	4
RTS012N3PHEC03	Receptacle, square flange, 3 positions, size 12, pin contact, silicone rubber seal, endcap	-40 to 125°C	6
RTS012N3S03	Receptacle, square flange, 3 positions, size 12, socket contact, silicone rubber seal	-40 to 125°C	5
RTS012N3SHEC03	Receptacle, square flange, 3 positions, size 12, socket contact, silicone rubber seal, endcap	-40 to 125°C	7

Connector Part Numbers -Plugs

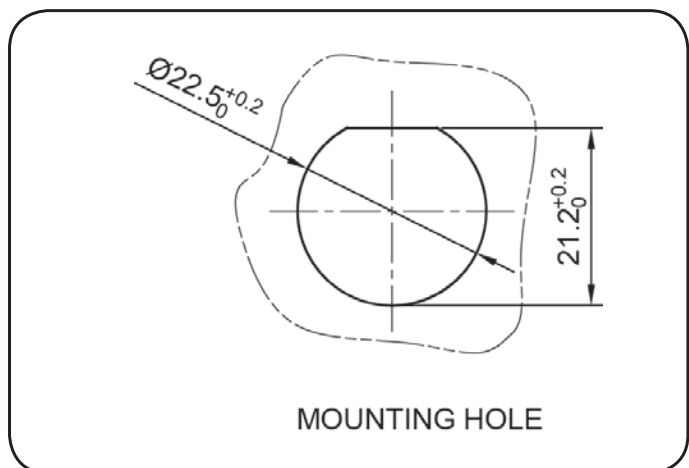
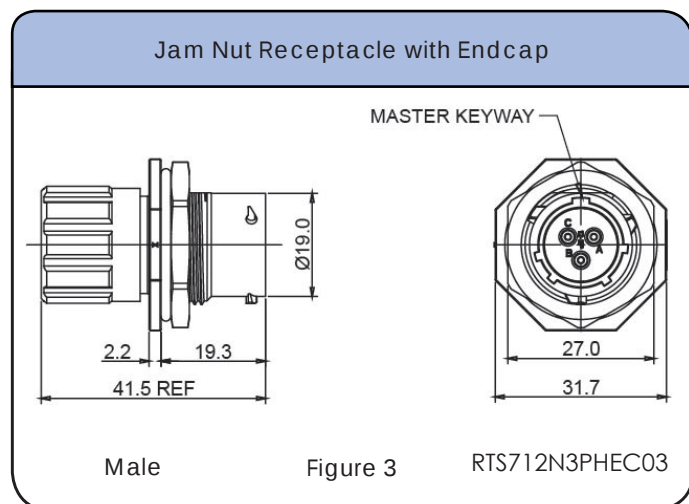
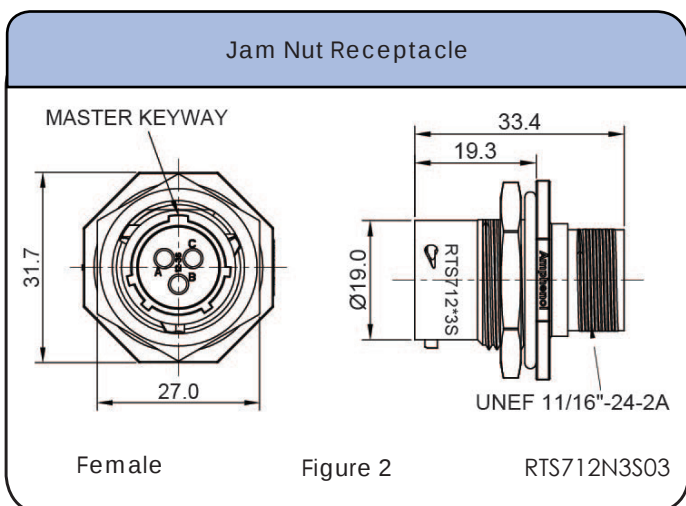
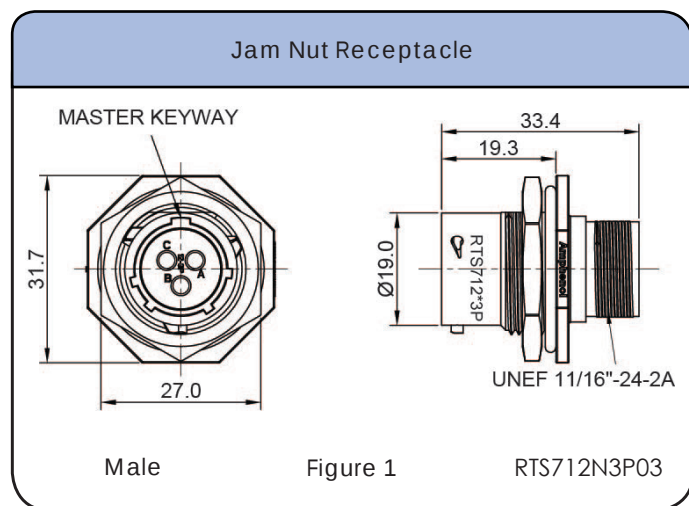
PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS12N3P03	Straight plug with cord grip, 3 positions, size 12, pin contact , silicone rubber seal	-40 to 125°C	8
RTS6BS12N3PHEC03	Straight plug with end cap, 3 positions, size 12, pin contact , silicone rubber seal	-40 to 125°C	10
RTS6BS12N3S03	Straight plug with cord grip, 3 positions, size 12, socket contact , silicone rubber seal	-40 to 125°C	9
RTS6BS12N3SHEC03	Straight plug with end cap, 3 positions, size 12, socket contact , silicone rubber seal	-40 to 125°C	11

Contacts supplied separately see page 32

Shell Size: 12 Number of Contacts: 3
 Sealing: IP67 / IP69k Salt Spray: 500h

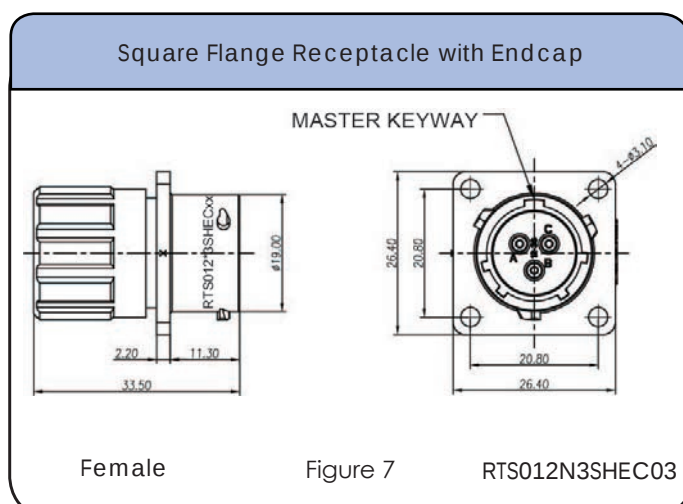
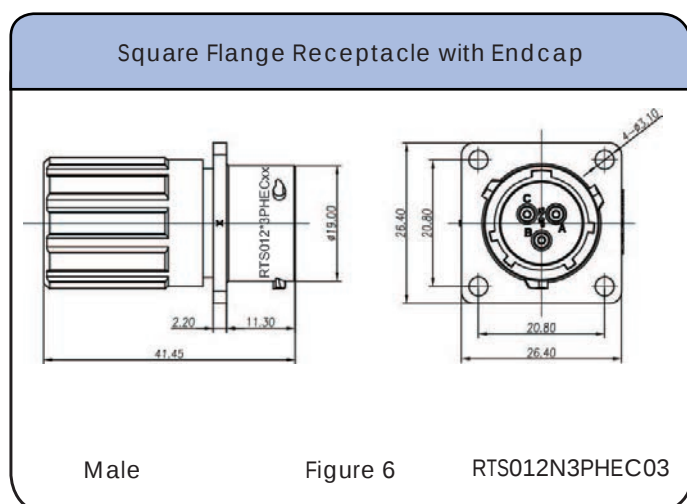
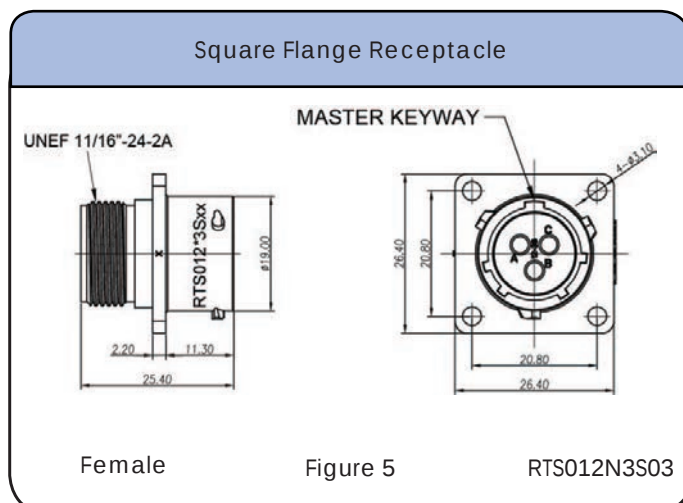
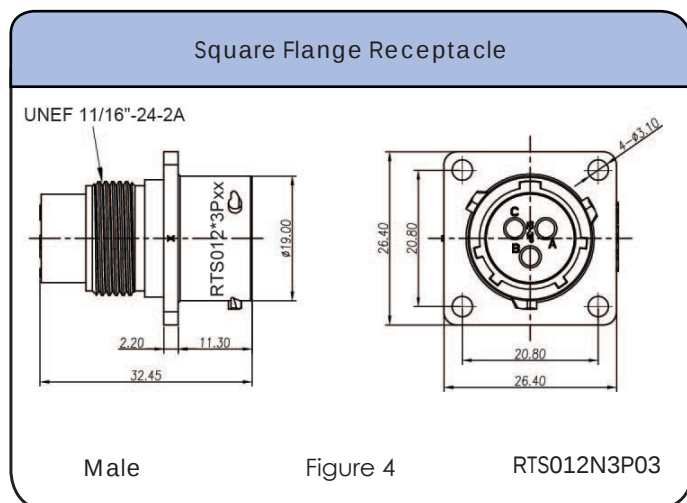
Contact Size: 16

Dimensions Jam Nut Receptacle



Shell Size: 12 Number of Contacts: 3 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

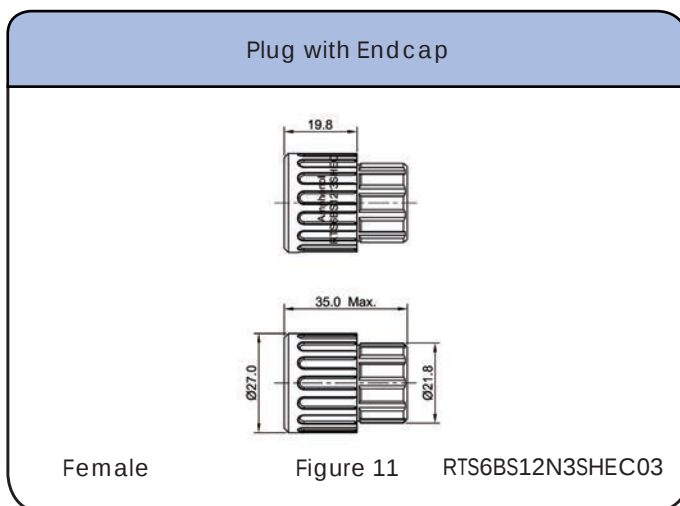
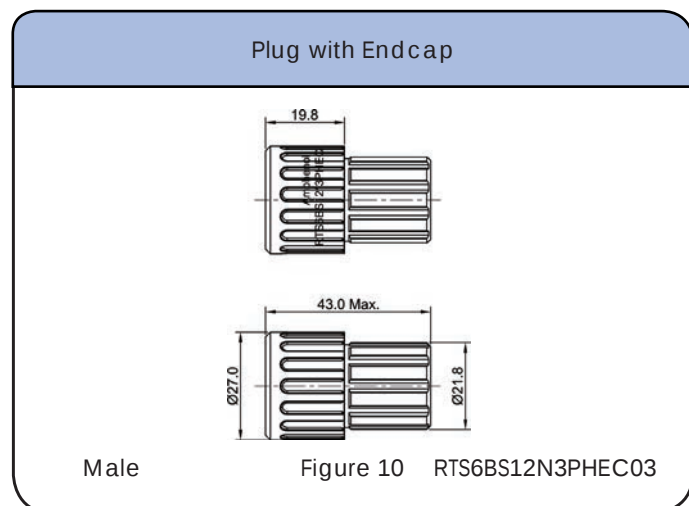
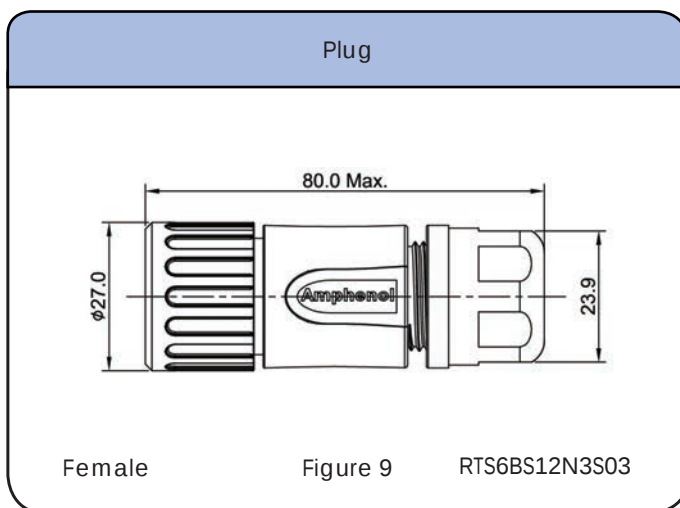
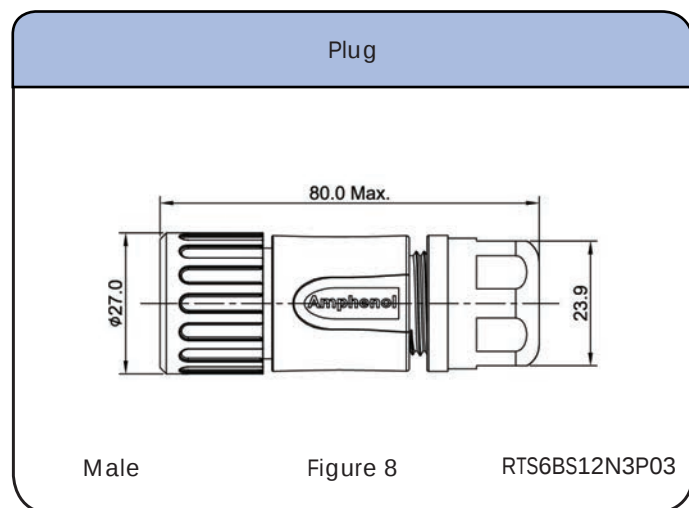
Dimensions Square Flange Receptacle



Shell Size: 12 Number of Contacts: 3
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 16

Dimensions Plug



Shell Size: 12 Number of Contacts: 3 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

Accessories

Dust Cap for Receptacle, Size 12  RTS012DCG	Dust Cap for Plug, Size 12  RTS612NDCG	Sealing Plug, Size 16  A114017-SR
Coding Color Ring, Yellow, Size 12  RTS12CCRY	Coding Color Ring, Green, Size 12  RTS12CCRG	Coding Color Ring, Red, Size 12  RTS12CCRR

Shell Size: 12 Number of Contacts: 3 Contact Size: 16
 Sealing: IP67 / IP69k Salt Spray: 500h

Contacts Machined



Crimp Contacts, Machined

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
MP14M23F	MS14M23F	14	2.0-2.5	Gold Flash
MP14M23G5	MS14M23G5	14	2.0-2.5	Gold 5μ"
MP14M23G10	MS14M23G10	14	2.0-2.5	Gold 10μ"
MP14M23G15	MS14M23G15	14	2.0-2.5	Gold 15μ"
MP14M23G30	MS14M23G30	14	2.0-2.5	Gold 30μ"
MP16M23F	MS16M23F	18-16	.75-1.5	Gold Flash
MP16M23G5	MS16M23G5	18-16	.75-1.5	Gold 5μ"
MP16M23G10	MS16M23G10	18-16	.75-1.5	Gold 10μ"
MP16M23G15	MS16M23G15	18-16	.75-1.5	Gold 15μ"
MP16M23G30	MS16M23G30	18-16	.75-1.5	Gold 30μ"
MP20M23F	MS20M23F	22-20	.34-.50	Gold Flash
MP20M23G5	MS20M23G5	22-20	.34-.50	Gold 5μ"
MP20M23G10	MS20M23G10	22-20	.34-.50	Gold 10μ"
MP20M23G15	MS20M23G15	22-20	.34-.50	Gold 15μ"
MP20M23G30	MS20M23G30	22-20	.34-.50	Gold 30μ"
MP24M23F	MS24M23F	26-24	.14-.25	Gold Flash
MP24M23G5	MS24M23G5	26-24	.14-.25	Gold 5μ"
MP24M23G10	MS24M23G10	26-24	.14-.25	Gold 10μ"
MP24M23G15	MS24M23G15	26-24	.14-.25	Gold 15μ"
MP24M23G30	MS24M23G30	26-24	.14-.25	Gold 30μ"

Tools

Contact Extraction Tool,
#16 (Ø 1.6) Contact



QXRT16

Hand Crimp Tool for
Machined Contacts



MX-3959

Pneumatic Crimp Tool for
Machined Contacts



MX-3960

Shell Size: 12 Number of Contacts: 3 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

Contacts Stamped & Formed



Stamped & Formed Contacts

Crimp Contacts, Stamped & Formed

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
SP14M2F	SS14M2F	14	2.0-2.5	Gold Flash
SP14M2G5	SS14M2G5	14	2.0-2.5	Gold 5μ"
SP14M2G10	SS14M2G10	14	2.0-2.5	Gold 10μ"
SP14M2G15	SS14M2G15	14	2.0-2.5	Gold 15μ"
SP14M2G30	SS14M2G30	14	2.0-2.5	Gold 30μ"
SP16M2F	SS16M2F	18-16	.75-1.5	Gold Flash
SP16M2G5	SS16M2G5	18-16	.75-1.5	Gold 5μ"
SP16M2G10	SS16M2G10	18-16	.75-1.5	Gold 10μ"
SP16M2G15	SS16M2G15	18-16	.75-1.5	Gold 15μ"
SP16M2G30	SS16M2G30	18-16	.75-1.5	Gold 30μ"
SP20M2F	SS20M2F	22-20	.34-.50	Gold Flash
SP20M2G5	SS20M2G5	22-20	.34-.50	Gold 5μ"
SP20M2G10	SS20M2G10	22-20	.34-.50	Gold 10μ"
SP20M2G15	SS20M2G15	22-20	.34-.50	Gold 15μ"
SP20M2G30	SS20M1G30	22-20	.34-.50	Gold 30μ"
SP24M2F	SS24M2F	26-24	.14-.25	Gold Flash
SP24M2G5	SS24M2G5	26-24	.14-.25	Gold 5μ"
SP24M2G10	SS24M2G10	26-24	.14-.25	Gold 10μ"
SP24M2G15	SS24M2G15	26-24	.14-.25	Gold 15μ"
SP24M2G30	SS24M2G30	26-24	.14-.25	Gold 30μ"

Tools

Contact Extraction Tool,
#16 (Ø 1.6) Contact



QXRT16

Hand Tool, Stamped & Formed
Contact, Size 16 20-14AWG



MFY-3954

Crimp Die for Stamped &
Formed Contact



MFY-3957

STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



RTS714N3P03



RTS714N3S03

Square Flange Receptacles



RTS014N3P03



RTS014N3S03

Plugs



RTS6BS14N3P03



RTS6BS14N3S03

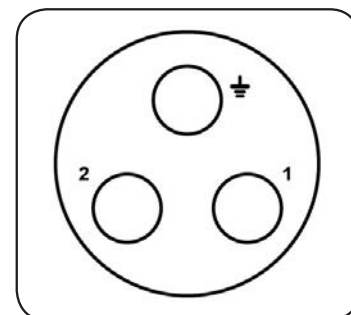
SEE TABLE ON NEXT PAGE FOR PART DETAILS

CONTACTS SOLD SEPARATELY SEE PAGE 39

Shell Size: 14 Number of Contacts: 3 Contact Size: 3.6mm
Sealing: IP67 / IP69k Salt Spray: 500h

eco|mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +125°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers - Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS714N3P03	Receptacle, jam nut, 3 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	1
RTS714N3S03	Receptacle, jam nut, 3 positions, size 14, socket contact, silicone rubber seal	-40 to 125°C	2
RTS014N3P03	Receptacle, square flange, 3 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	3
RTS014N3S03	Receptacle, square flange, 3 positions, size 14, socket contact, silicone rubber seal	-40 to 125°C	4

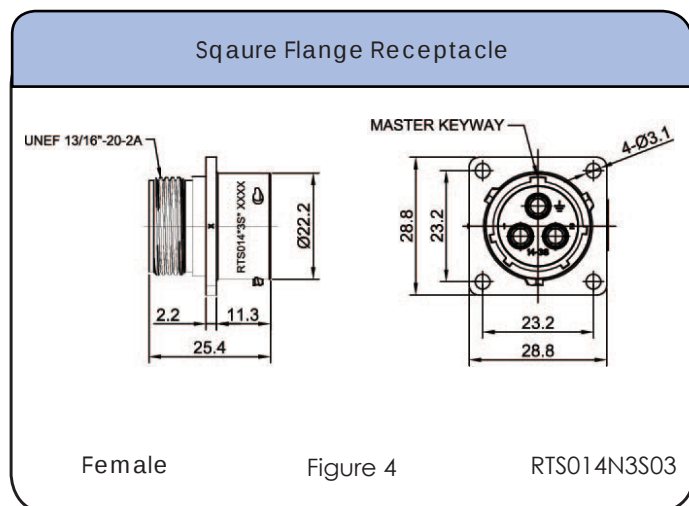
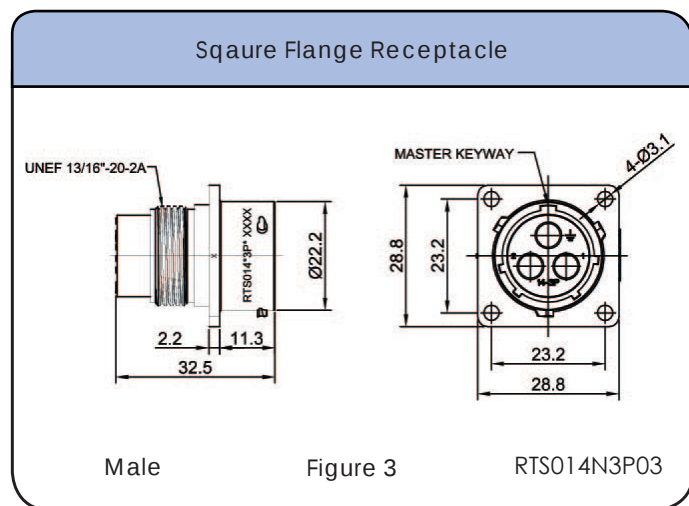
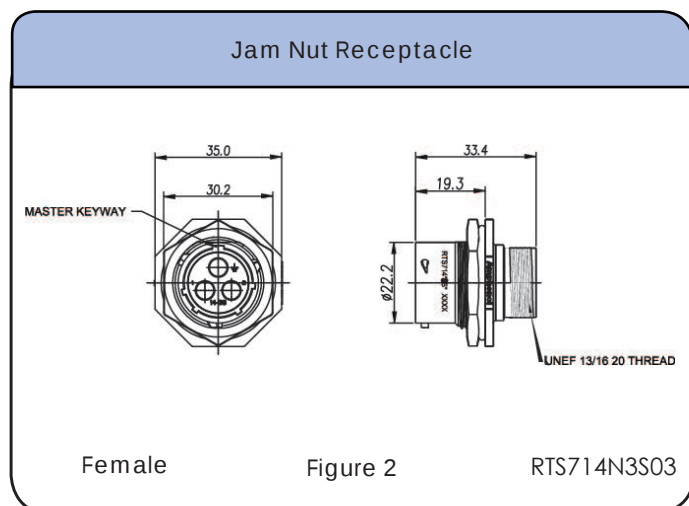
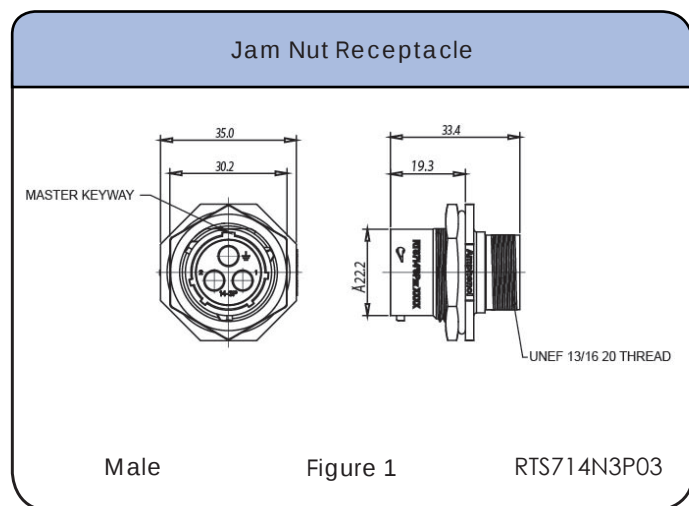
Connector Part Numbers - Plugs

PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS14N3P03	Straight plug with cord grip, 3 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	5
RTS6BS14N3S03	Straight plug with cord grip, 3 positions, size 14, socket contact, silicone rubber seal	-40 to 125°C	6

Contacts supplied separately see page 39

Shell Size: 14 Number of Contacts: 3 Contact Size: 8
 Sealing: IP67 / IP69k Salt Spray: 500h

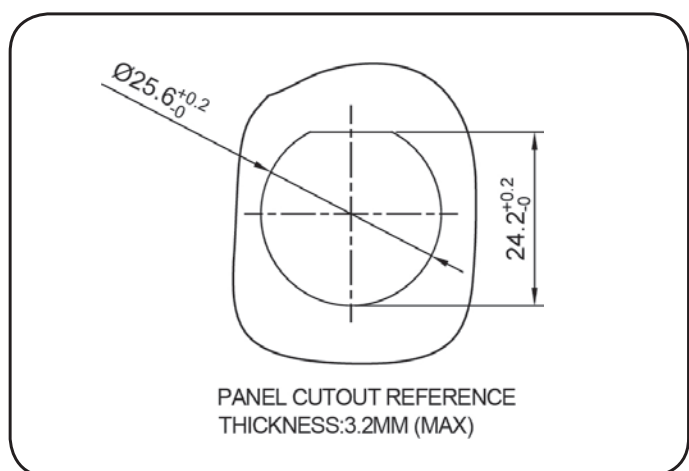
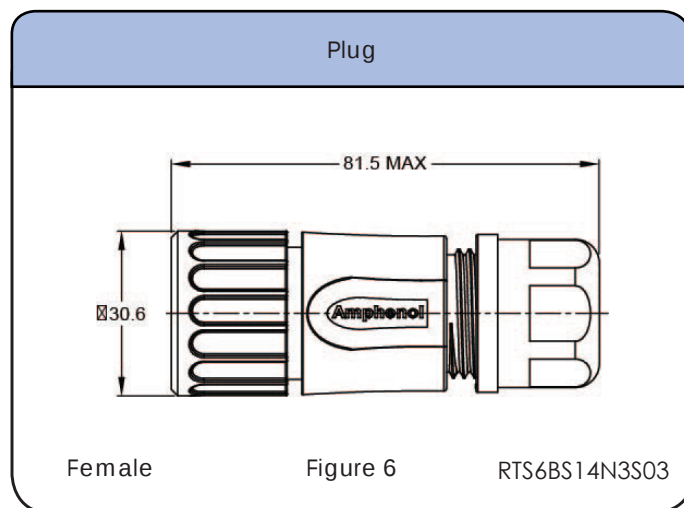
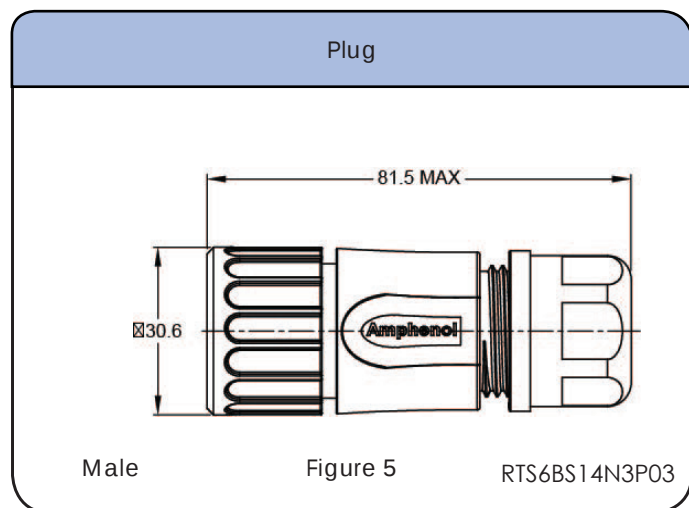
Dimensions Jam Nut and Square Flange Receptacles



Shell Size: 14 Number of Contacts: 3
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 3.6mm

Dimensions Plugs



Shell Size: 14 Number of Contacts: 3 Contact Size: 8
Sealing: IP67 / IP69k Salt Spray: 500h

Accessories

Dust Cap for Receptacle, Size 14



RTS014DCG

Dust Cap for Plug, Size 14



RTS614NDCG

Coding Color Ring, Yellow, Size 14



RTS14CCRY

Coding Color Ring, Green, Size 14



RTS14CCRG

Coding Color Ring, Red, Size 14



RTS14CCRR

Shell Size: 14 Number of Contacts: 3 Contact Size: 3.6mm
Sealing: IP67 / IP69k Salt Spray: 500h

Contacts



Crimp Contacts, Machined

Part Number		AWG	Wire Range (mm²)	Plating
Male	Female			
MP10A23S	MS10A23S	8	3.0-6.0	Silver Plated

no stamped & formed contacts are available for this group

Tools

Extraction Tool 3.6mm Contact



QXRT08

Extraction Tool (for eco | mate® rm with Radsok) 3.6mm Contact



QXRT08R

STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



Jam Nut Receptacles



Plugs



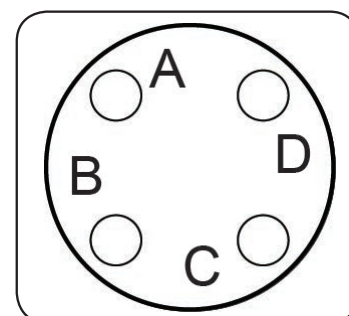
SEE TABLE ON NEXT PAGE FOR PART DETAILS

CONTACTS SOLD SEPARATELY SEE PAGE 44

Shell Size: 8 Number of Contacts: 4 Contact Size: 20
Sealing: IP67 / IP69k Salt Spray: 500h

eco|mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +105°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers - Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS78N4P	Receptacle, jam nut, 4 positions, size 8, pin contact, NBR seal	-40 to 105°C	1
RTS78N4S	Receptacle, jam nut, 4 positions, size 8, socket contact, NBR seal	-40 to 105°C	2
RTS08N4P	Receptacle, square flange, 3 positions, size 8, pin contact , NBR Seal	-40C to 105C	3
RTS08N4S	Receptacle, square flange, 3 positions, size 8, socket contact , NBR Seal	-40C to 105C	4

Connector Part Numbers - Plugs

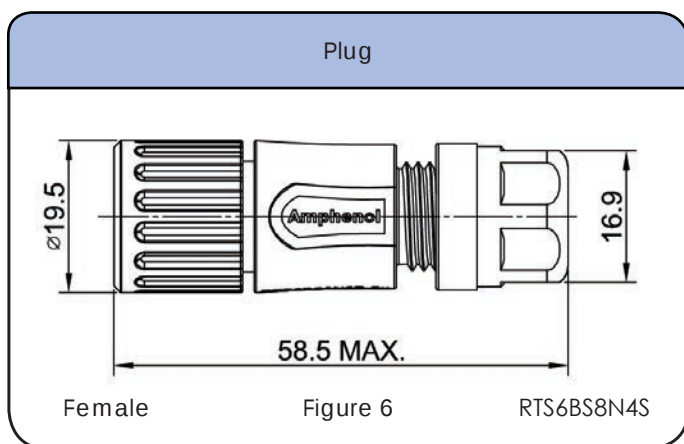
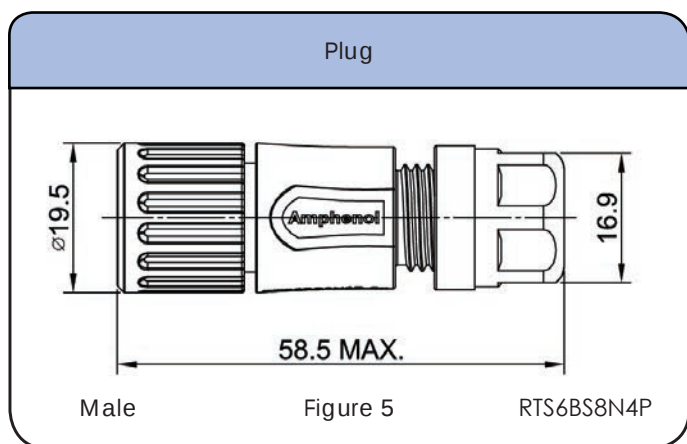
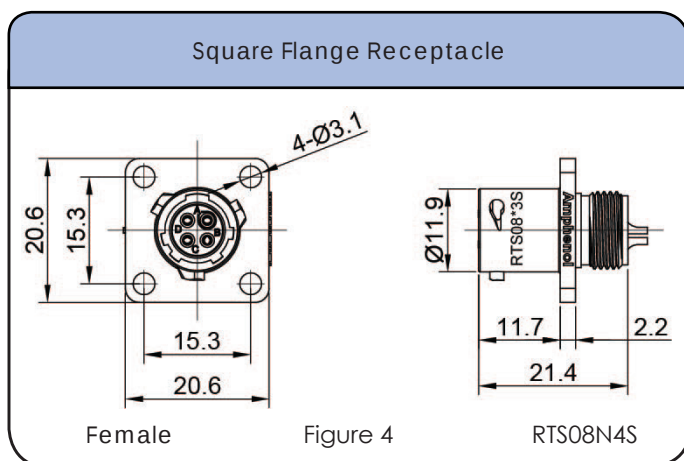
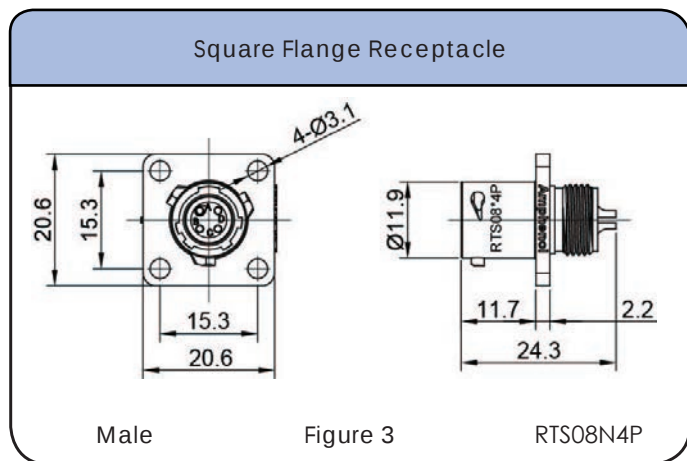
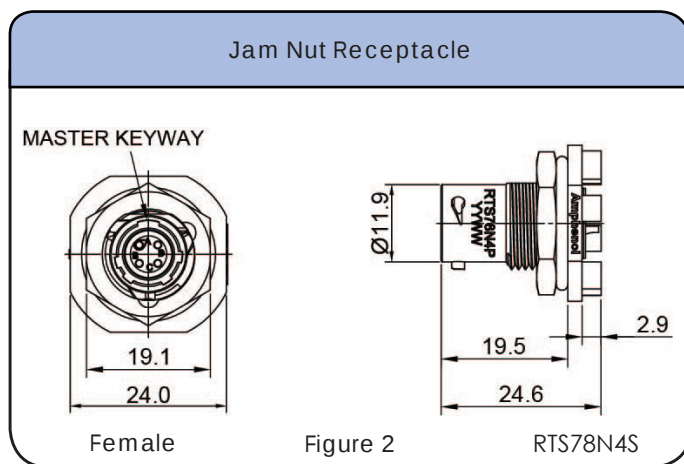
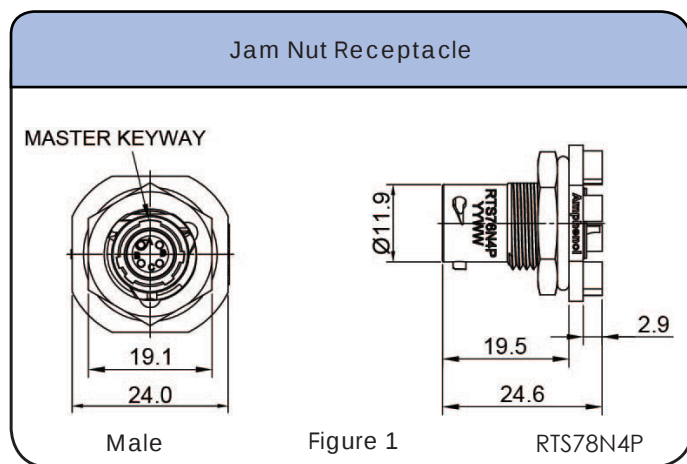
PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS8N4P	Straight plug with cord grip, 4 positions, size 8, pin contact, NBR seal	-40 to 105°C	5
RTS6BS8N4S	Straight plug with cord grip, 4 positions, size 8, socket contact, NBR seal	-40 to 105°C	6

Contacts supplied separately see page 44

Shell Size: 8 Number of Contacts: 4
Sealing: IP67 / IP69k Salt Spray: 500h

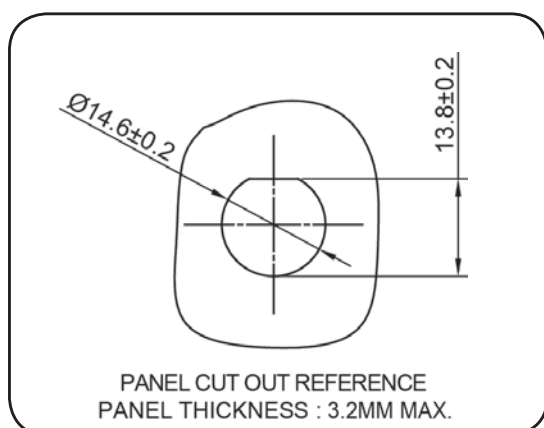
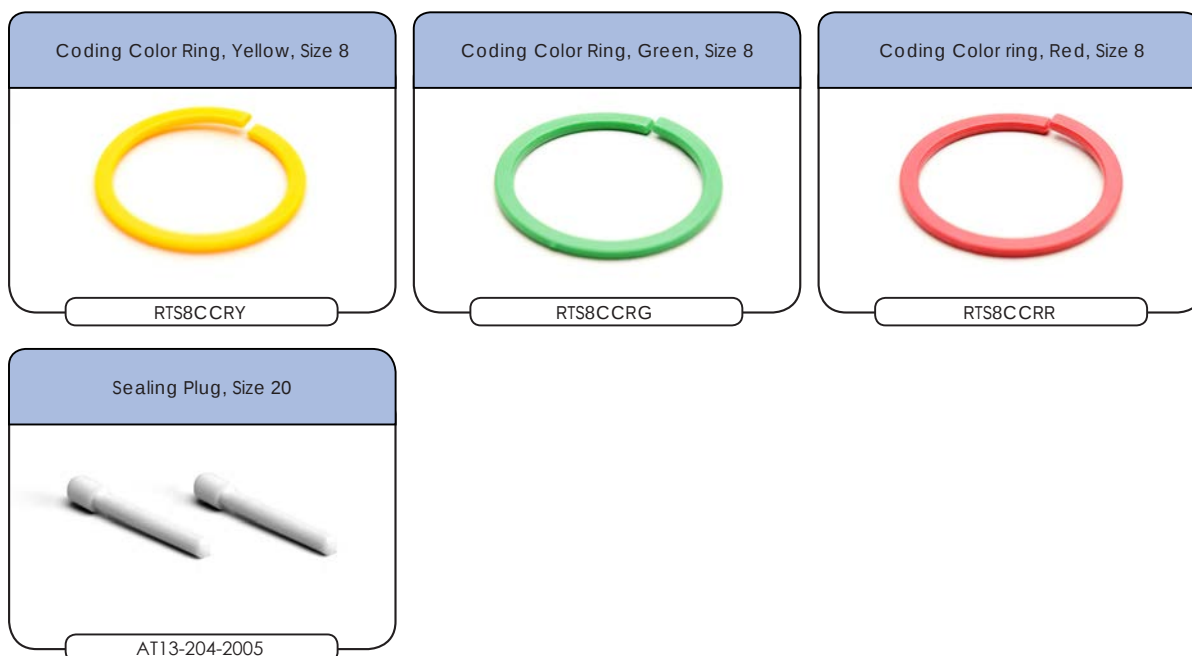
Contact Size: 20

Dimensions Receptacles/ Plugs



Shell Size: 8 Number of Contacts: 4 Contact Size: 20
Sealing: IP67 / IP69k Salt Spray: 500h

Accessories



Shell Size: 8 Number of Contacts: 4 Contact Size: 20
 Sealing: IP67 / IP69k Salt Spray: 500h

Contacts Machined



Crimp Contacts, Machined

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
MP20W23F	MS20W23F	22-20	.34-.50	Gold Flash
MP20W23G5	MS20W23G5	22-20	.34-.50	Gold 5μ"
MP20W23G10	MS20W23G10	22-20	.34-.50	Gold 10μ"
MP20W23G15	MS20W23G15	22-20	.34-.50	Gold 15μ"
MP20W23G30	MS20W23G30	22-20	.34-.50	Gold 30μ"
MP24W23F	MS24W23F	26-24	.13-.25	Gold Flash
MP24W23G5	MS24W23G5	26-24	.13-.25	Gold 5μ"
MP24W23G10	MS24W23G10	26-24	.13-.25	Gold 10μ"
MP24W23G15	MS24W23G15	26-24	.13-.25	Gold 15μ"
MP24W23G30	MS24W23G30	26-24	.13-.25	Gold 30μ"
MP28W23F	MS28W23F	30-28	.05-.08	Gold Flash
MP28W23G5	MS28W23G5	30-28	.05-.08	Gold 5μ"
MP28W23G10	MS28W23G10	30-28	.05-.08	Gold 10μ"
MP28W23G15	MS28W23G15	30-28	.05-.08	Gold 15μ"
MP28W23G30	MS28W23G30	30-28	.05-.08	Gold 30μ"

Tools

Contact Extraction Tool,
#20 (Ø 1.6) Contact



QXRT20

Hand Crimp Tool for
Machined Contacts



MF3-3959

Pneumatic Crimp Tool for
Machined Contact



MF3-3960

Shell Size: 8 Number of Contacts: 4 Contact Size: 20
Sealing: IP67 / IP69k Salt Spray: 500h

Contacts Stamped & Formed



Stamped & Formed Contacts

Crimp Contacts, Stamped & Formed

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
SP20W2F	SS20W2F	22-20	.34-.50	Gold Flash
SP20W2G5	SS20W2G5	22-20	.34-.50	Gold 5μ"
SP20W2G10	SS20W2G10	22-20	.34-.50	Gold 10μ"
SP20W2G15	SS20W2G15	22-20	.34-.50	Gold 15μ"
SP20W2G30	SS20W2G30	22-20	.34-.50	Gold 30μ"
SP24W2F	SS24W2F	26-24	.14-.25	Gold Flash
SP24W2G5	SS24W2G5	26-24	.14-.25	Gold 5μ"
SP24W2G10	SS24W2G10	26-24	.14-.25	Gold 10μ"
SP24W2G15	SS24W2G15	26-24	.14-.25	Gold 15μ"
SP24W2G30	SS24W2G30	26-24	.14-.25	Gold 30μ"
SP28W2F	SS28W2F	30-28	.05-.08	Gold Flash
SP28W2G5	SS28W2G5	30-28	.05-.08	Gold 5μ"
SP28W2G10	SS28W2G10	30-28	.05-.08	Gold 10μ"
SP28W2G15	SS28W2G15	30-28	.05-.08	Gold 15μ"
SP28W2G30	SS28W2G30	30-28	.05-.08	Gold 30μ"

Tools

Contact Extraction Tool,
#20 (Ø 1.6) Contact



QXRT20

Hand Tool, Stamped & Formed
Contact, Size 20 20-14AWG



MF3-3958

Crimp Die for Stamped &
Formed Contact



MF3-3957

STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



RTS710N4P03



RTS710N4S03



RTS710N4PHEC03

Square Flange Receptacles



RTS010N4P03



RTS010N4S03



RTS010N4PHEC03



RTS010N4SHEC03

Plug



RTS6BS10N4P03



RTS6BS10N4S03



RTS6BS10N4SHEC03

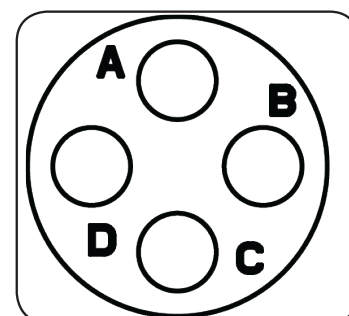


RTS6BS10N4PHEC03

Shell Size: 10 Number of Contacts: 4 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

eco|mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +125°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers - Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS710N4P03	Receptacle, jam nut, 4 positions, size 10, pin contact , silicone rubber seal	-40C to 125C	1
RTS710N4S03	Receptacle, jam nut, 4 positions, size 10, socket contact , silicone rubber seal	-40C to 125C	2
RTS710N4PHEC03	Receptacle, jam nut, 4 positions, size 10, pin contact , silicone rubber seal, endcap	-40C to 125C	3
RTS010N4P03	Receptacle, square flange, 4 positions, size 10, pin contact, silicone rubber seal	-40C to 125C	4
RTS010N4PHEC03	Receptacle, square flange, 4 positions, size 10, pin contact, silicone rubber seal, endcap	-40C to 125C	6
RTS010N4S03	Receptacle, square flange, 4 positions, size 10, socket contact, silicone rubber seal	-40C to 125C	5
RTS010N4SHEC03	Receptacle, square flange, 4 positions, size 10, socket contact, silicone rubber seal, endcap	-40C to 125C	7

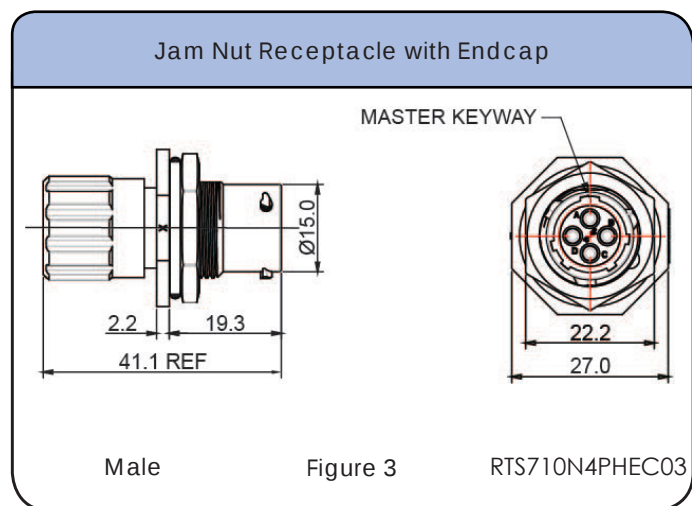
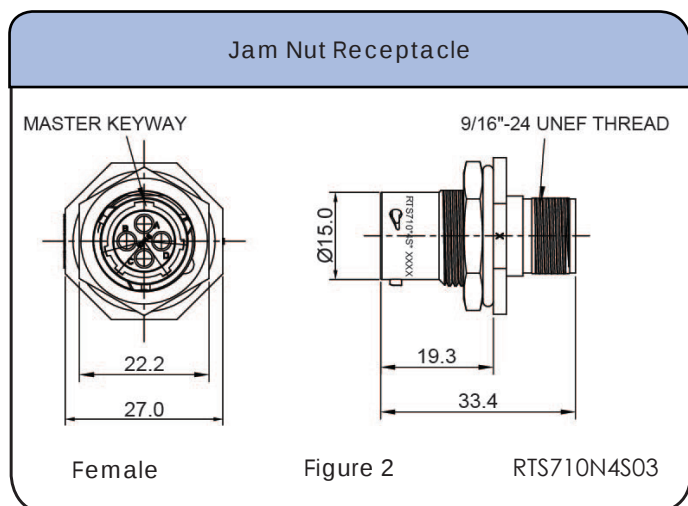
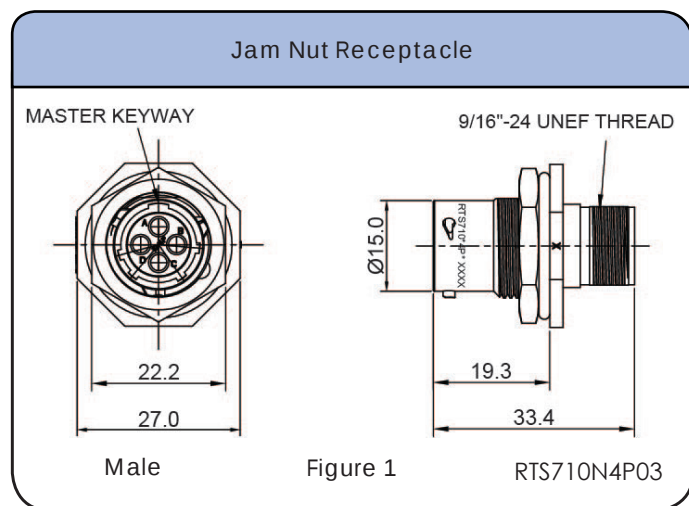
Connector Part Numbers - Plugs

PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS10N4P03	Straight plug with cord grip, 4 positions, size 10, pin contact , silicone rubber seal	-40C to 125C	8
RTS6BS10N4PHEC03	Straight plug with endcap, 4 positions, size 10, pin contact , silicone rubber seal	-40C to 125C	10
RTS6BS10N4S03	Straight plug with cord grip, 4 positions, size 10, socket contact , silicone rubber seal	-40C to 125C	9
RTS6BS10N4SHEC03	Straight plug with endcap, 4 positions, size 10, socket contact , silicone rubber seal	-40C to 125C	11

Contacts supplied separately see page 52

Shell Size: 10 Number of Contacts: 4 Contact Size: 16
 Sealing: IP67 / IP69k Salt Spray: 500h

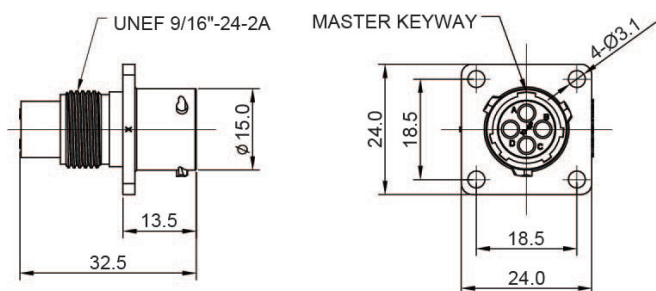
Dimensions Jam Nut Receptacle



Shell Size: 10 Number of Contacts: 4 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

Dimensions Square Flange Receptacle

Square Flange Receptacle

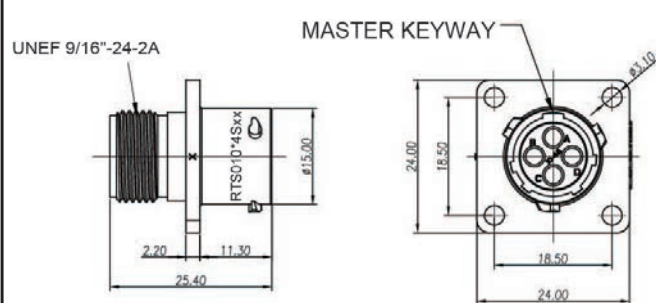


Male

Figure 4

RTS010N4P03

Square Flange Receptacle

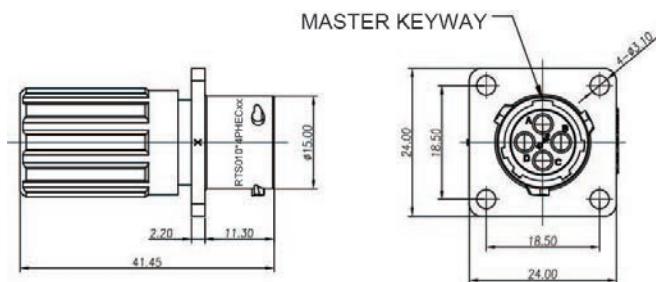


Female

Figure 5

RTS010N4S03

Square Flange Receptacle with Endcap

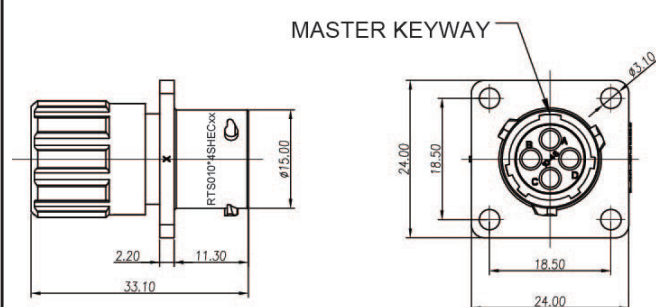


Male

Figure 6

RTS010N4PHEC03

Square Flange Receptacle with Endcap



Female

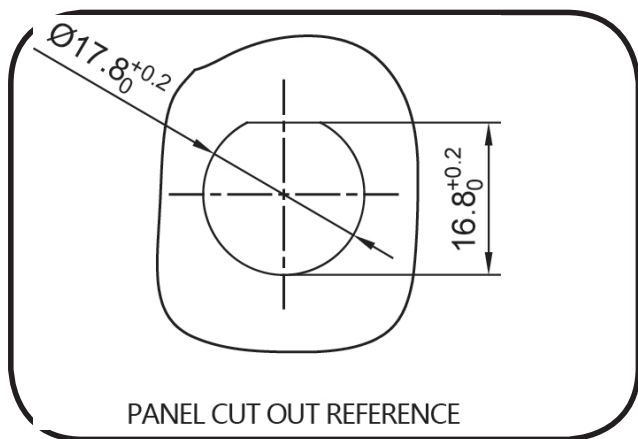
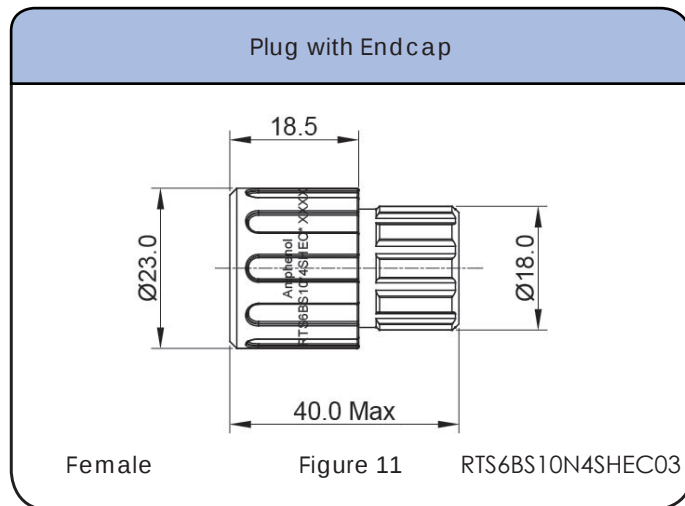
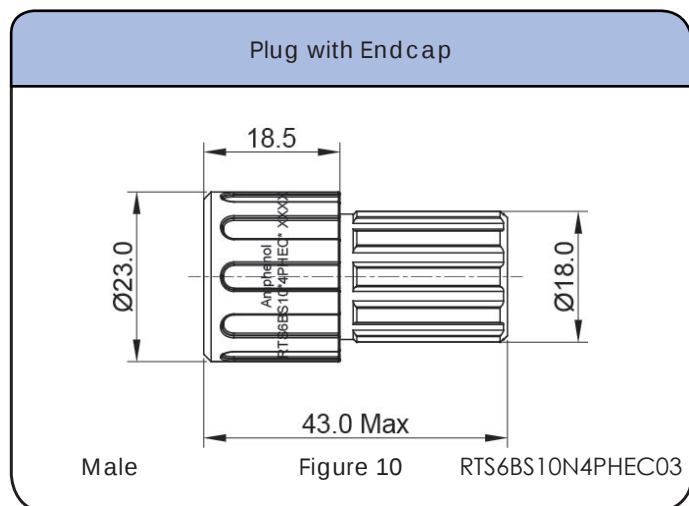
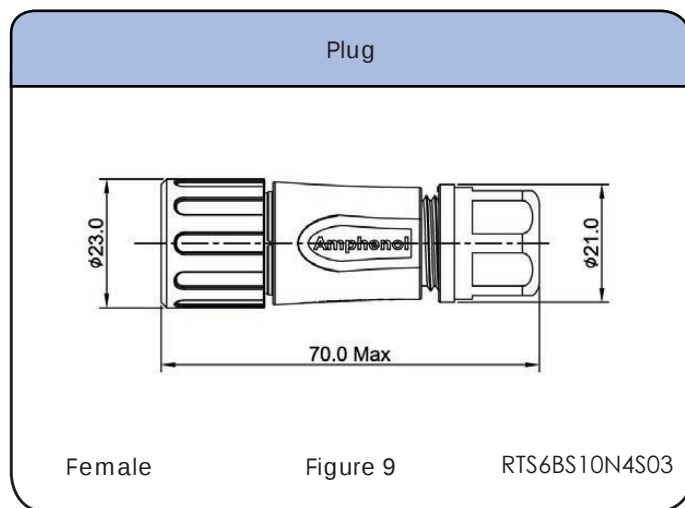
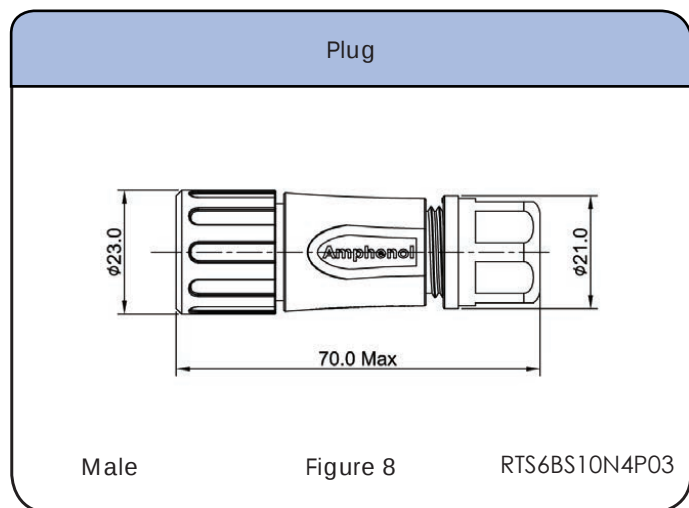
Figure 7

RTS010N4SHEC03

Shell Size: 10 Number of Contacts: 4
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 16

Dimensions Plug



Shell Size: 10 Number of Contacts: 4 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

Accessories

Dust Cap for Receptacle, Size 10  RTS010DCG	Dust Cap for Plug, Size 10  RTS610NDCG	Sealing Plug, Size 16  A114017-SR
Coding Color Ring, Yellow, Size 10  RTS10CCRY	Coding Color Ring, Green, Size 10  RTS10CCRG	Coding Color Ring, Red, Size 10  RTS10CCRR

Shell Size: 10 Number of Contacts: 4 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

Contacts Machined



Crimp Contacts, Machined

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
MP14M23F	MS14M23F	14	2.0-2.5	Gold Flash
MP14M23G5	MS14M23G5	14	2.0-2.5	Gold 5μ"
MP14M23G10	MS14M23G10	14	2.0-2.5	Gold 10μ"
MP14M23G15	MS14M23G15	14	2.0-2.5	Gold 15μ"
MP14M23G30	MS14M23G30	14	2.0-2.5	Gold 30μ"
MP16M23F	MS16M23F	18-16	.75-1.5	Gold Flash
MP16M23G5	MS16M23G5	18-16	.75-1.5	Gold 5μ"
MP16M23G10	MS16M23G10	18-16	.75-1.5	Gold 10μ"
MP16M23G15	MS16M23G15	18-16	.75-1.5	Gold 15μ"
MP16M23G30	MS16M23G30	18-16	.75-1.5	Gold 30μ"
MP20M23F	MS20M23F	22-20	.34-.50	Gold Flash
MP20M23G5	MS20M23G5	22-20	.34-.50	Gold 5μ"
MP20M23G10	MS20M23G10	22-20	.34-.50	Gold 10μ"
MP20M23G15	MS20M23G15	22-20	.34-.50	Gold 15μ"
MP20M23G30	MS20M23G30	22-20	.34-.50	Gold 30μ"
MP24M23F	MS24M23F	26-24	.14-.25	Gold Flash
MP24M23G5	MS24M23G5	26-24	.14-.25	Gold 5μ"
MP24M23G10	MS24M23G10	26-24	.14-.25	Gold 10μ"
MP24M23G15	MS24M23G15	26-24	.14-.25	Gold 15μ"
MP24M23G30	MS24M23G30	26-24	.14-.25	Gold 30μ"

Tools

Contact Extraction Tool,
#16 (Ø 1.6) Contact



QXRT16

Hand Crimp Tool for
Machined Contacts



MX-3959

Pneumatic Crimp Tool for
Machined Contacts



MX-3960

Shell Size: 10 Number of Contacts: 4 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

Contacts Stamped & Formed



Stamped & Formed Contacts

Crimp Contacts, Stamped & Formed

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
SP14M2F	SS14M2F	14	2.0-2.5	Gold Flash
SP14M2G5	SS14M2G5	14	2.0-2.5	Gold 5μ"
SP14M2G10	SS14M2G10	14	2.0-2.5	Gold 10μ"
SP14M2G15	SS14M2G15	14	2.0-2.5	Gold 15μ"
SP14M2G30	SS14M2G30	14	2.0-2.5	Gold 30μ"
SP16M2F	SS16M2F	18-16	.75-1.5	Gold Flash
SP16M2G5	SS16M2G5	18-16	.75-1.5	Gold 5μ"
SP16M2G10	SS16M2G10	18-16	.75-1.5	Gold 10μ"
SP16M2G15	SS16M2G15	18-16	.75-1.5	Gold 15μ"
SP16M2G30	SS16M2G30	18-16	.75-1.5	Gold 30μ"
SP20M2F	SS20M2F	22-20	.34-.50	Gold Flash
SP20M2G5	SS20M2G5	22-20	.34-.50	Gold 5μ"
SP20M2G10	SS20M2G10	22-20	.34-.50	Gold 10μ"
SP20M2G15	SS20M2G15	22-20	.34-.50	Gold 15μ"
SP20M2G30	SS20M1G30	22-20	.34-.50	Gold 30μ"
SP24M2F	SS24M2F	26-24	.14-.25	Gold Flash
SP24M2G5	SS24M2G5	26-24	.14-.25	Gold 5μ"
SP24M2G10	SS24M2G10	26-24	.14-.25	Gold 10μ"
SP24M2G15	SS24M2G15	26-24	.14-.25	Gold 15μ"
SP24M2G30	SS24M2G30	26-24	.14-.25	Gold 30μ"

Tools

Contact Extraction Tool,
#16 (Ø 1.6) Contact



QXRT16

Hand Tool, Stamped & Formed
Contact, Size 16 20-14AWG



MFX-3954

Crimp Die for Stamped &
Formed Contact



MFX-3957

STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



RTS712N4P03



RTS712N4S03

Plug



RTS6BS12N4P03



RTS6BS12N4S03

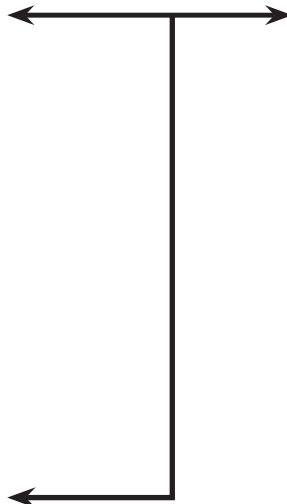
Square Flange Receptacles



RTS012N4P03



RTS012N4S03



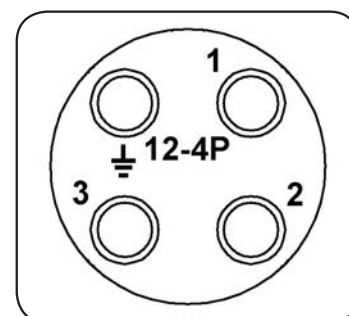
SEE TABLE ON NEXT PAGE FOR PART DETAILS

CONTACTS SOLD SEPARATELY SEE PAGE 58

Shell Size: 12 Number of Contacts: 4 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

eco|mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +125°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers - Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS712N4P03	Receptacle, jam nut, 4 positions, size 12, pin contact, silicone rubber seal	-40 to 125°C	1
RTS712N4S03	Receptacle, jam nut, 4 positions, size 12, socket contact, silicone rubber seal	-40 to 125°C	2
RTS012N4P03	Receptacle, square flange, 4 positions, size 12, pin contact, silicone rubber seal	-40 to 125°C	3
RTS012N4S03	Receptacle, square flange, 4 positions, size 12, socket contact, silicone rubber seal	-40 to 125°C	4

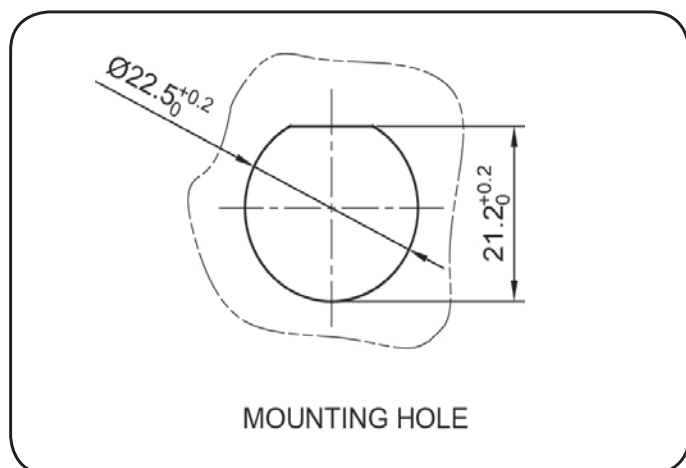
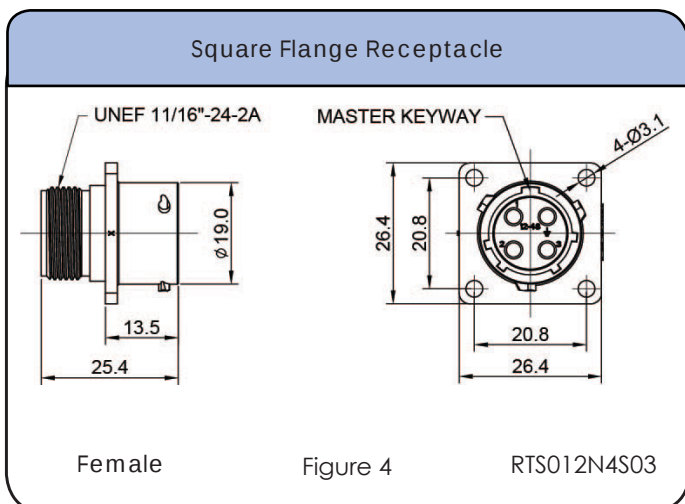
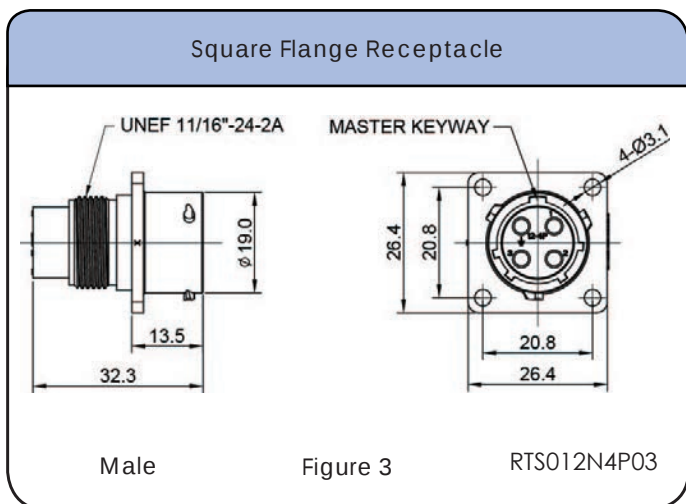
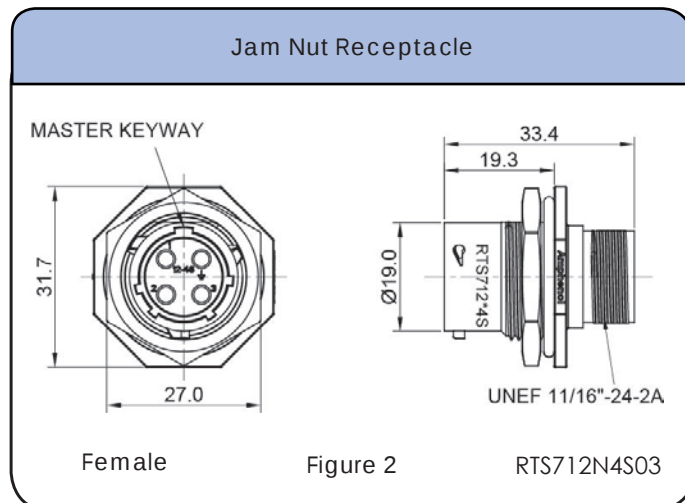
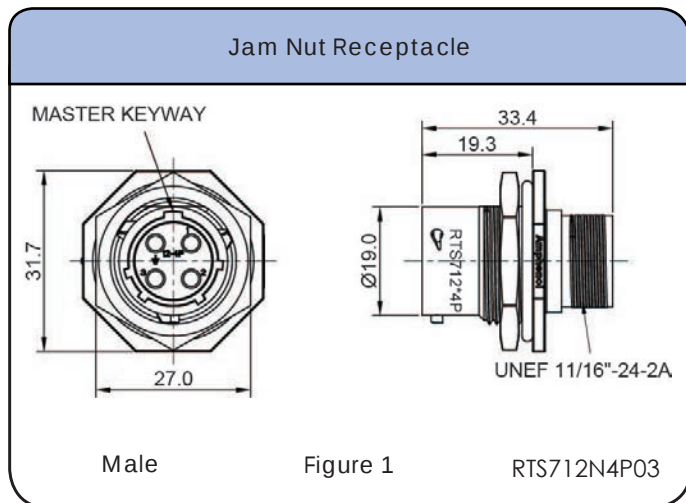
Connector Part Numbers - Plugs

PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS12N4P03	Straight plug with cord grip, 4 positions, size 12, pin contact, silicone rubber seal	-40 to 125°C	5
RTS6BS12N4S03	Straight plug with cord grip, 4 positions, size 12, socket contact, silicone rubber seal	-40 to 125°C	6

Contacts supplied separately see page 58

Shell Size: 12 Number of Contacts: 4 Contact Size: 16
 Sealing: IP67 / IP69k Salt Spray: 500h

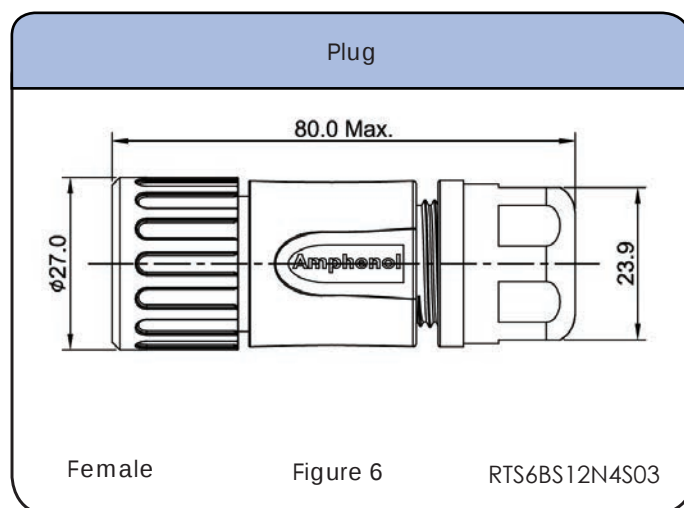
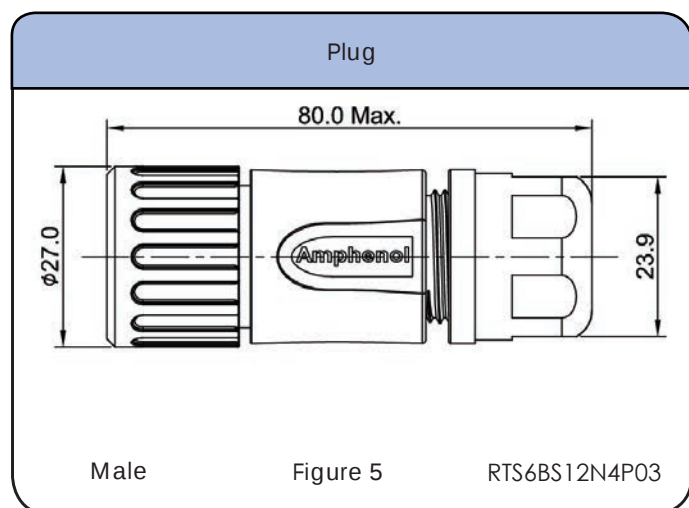
Dimensions Jam Nut/ Square Flange Receptacles



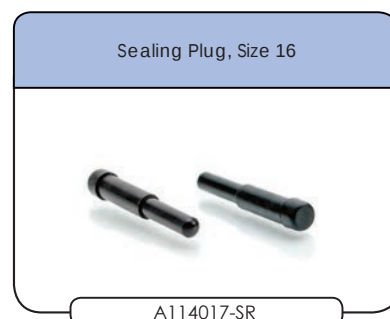
Shell Size: 12 Number of Contacts: 4
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 16

Dimensions Plugs



Accessories



Shell Size: 12 Number of Contacts: 4 Contact Size: 16
 Sealing: IP67 / IP69k Salt Spray: 500h

Contacts Machined



Crimp Contacts, Machined

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
MP14M23F	MS14M23F	14	2.0-2.5	Gold Flash
MP14M23G5	MS14M23G5	14	2.0-2.5	Gold 5μ"
MP14M23G10	MS14M23G10	14	2.0-2.5	Gold 10μ"
MP14M23G15	MS14M23G15	14	2.0-2.5	Gold 15μ"
MP14M23G30	MS14M23G30	14	2.0-2.5	Gold 30μ"
MP16M23F	MS16M23F	18-16	.75-1.5	Gold Flash
MP16M23G5	MS16M23G5	18-16	.75-1.5	Gold 5μ"
MP16M23G10	MS16M23G10	18-16	.75-1.5	Gold 10μ"
MP16M23G15	MS16M23G15	18-16	.75-1.5	Gold 15μ"
MP16M23G30	MS16M23G30	18-16	.75-1.5	Gold 30μ"
MP20M23F	MS20M23F	22-20	.34-.50	Gold Flash
MP20M23G5	MS20M23G5	22-20	.34-.50	Gold 5μ"
MP20M23G10	MS20M23G10	22-20	.34-.50	Gold 10μ"
MP20M23G15	MS20M23G15	22-20	.34-.50	Gold 15μ"
MP20M23G30	MS20M23G30	22-20	.34-.50	Gold 30μ"
MP24M23F	MS24M23F	26-24	.14-.25	Gold Flash
MP24M23G5	MS24M23G5	26-24	.14-.25	Gold 5μ"
MP24M23G10	MS24M23G10	26-24	.14-.25	Gold 10μ"
MP24M23G15	MS24M23G15	26-24	.14-.25	Gold 15μ"
MP24M23G30	MS24M23G30	26-24	.14-.25	Gold 30μ"

Tools

Contact Extraction Tool,
#16 (Ø 1.6) Contact



QXRT16

Hand Crimp Tool for
Machined Contacts



MX-3959

Pneumatic Crimp Tool for
Machined Contacts



MX-3960

Shell Size: 12 Number of Contacts: 4 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

Contacts Stamped & Formed



Stamped & Formed Contacts

Crimp Contacts, Stamped & Formed

Part Number		AWG	Wire Range (mm²)	Plating
Male	Female			
SP14M2F	SS14M2F	14	2.0-2.5	Gold Flash
SP14M2G5	SS14M2G5	14	2.0-2.5	Gold 5μ"
SP14M2G10	SS14M2G10	14	2.0-2.5	Gold 10μ"
SP14M2G15	SS14M2G15	14	2.0-2.5	Gold 15μ"
SP14M2G30	SS14M2G30	14	2.0-2.5	Gold 30μ"
SP16M2F	SS16M2F	18-16	.75-1.5	Gold Flash
SP16M2G5	SS16M2G5	18-16	.75-1.5	Gold 5μ"
SP16M2G10	SS16M2G10	18-16	.75-1.5	Gold 10μ"
SP16M2G15	SS16M2G15	18-16	.75-1.5	Gold 15μ"
SP16M2G30	SS16M2G30	18-16	.75-1.5	Gold 30μ"
SP20M2F	SS20M2F	22-20	.34-.50	Gold Flash
SP20M2G5	SS20M2G5	22-20	.34-.50	Gold 5μ"
SP20M2G10	SS20M2G10	22-20	.34-.50	Gold 10μ"
SP20M2G15	SS20M2G15	22-20	.34-.50	Gold 15μ"
SP20M2G30	SS20M1G30	22-20	.34-.50	Gold 30μ"
SP24M2F	SS24M2F	26-24	.14-.25	Gold Flash
SP24M2G5	SS24M2G5	26-24	.14-.25	Gold 5μ"
SP24M2G10	SS24M2G10	26-24	.14-.25	Gold 10μ"
SP24M2G15	SS24M2G15	26-24	.14-.25	Gold 15μ"
SP24M2G30	SS24M2G30	26-24	.14-.25	Gold 30μ"

Tools

Contact Extraction Tool,
#16 (Ø 1.6) Contact



QXRT16

Hand Tool, Stamped & Formed
Contact, Size 16, 20-14AWG



MFY-3954

Crimp Die for Stamped &
Formed Contact



MFY-3957

STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



RTS714N4P03



RTS714N4S03



RTS714N4PHEC03

Square Flange Receptacles



RTS014N4P03



RTS014N4S03



RTS014N4PHEC03



RTS014N4SHEC03

Plugs



RTS6BS14N4P03



RTS6BS14N4S03



RTS6BS14N4PHEC03



RTS6BS14N4SHEC03

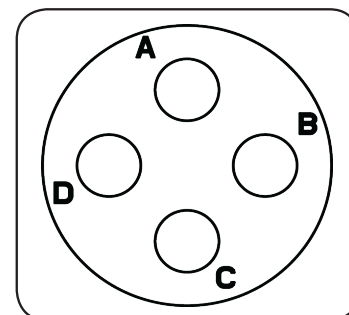
SEE TABLE ON NEXT PAGE FOR PART DETAILS

CONTACTS SOLD SEPARATELY SEE PAGE 65

Shell Size: 14 Number of Contacts: 4 Contact Size: 2.5mm
Sealing: IP67 / IP69k Salt Spray: 500h

eco|mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +125°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers - Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS714N4P03	Receptacle, jam nut, 4 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	1
RTS714N4PHEC03	Receptacle, jam nut, 4 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	3
RTS714N4S03	Receptacle, jam nut, 4 positions, size 14, socket contact, silicone rubber seal	-40 to 125°C	2
RTS014N4P03	Receptacle, square flange, 4 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	4
RTS014N4PHEC03	Receptacle, square flange, 4 positions, size 14, pin contact, silicone rubber seal, endcap	-40 to 125°C	6
RTS014N4S03	Receptacle, square flange, 4 positions, size 14, socket contact, silicone rubber seal	-40 to 125°C	5
RTS014N4SHEC03	Receptacle, square flange, 4 positions, size 14, socket contact, silicone rubber seal, endcap	-40 to 125°C	7

Connector Part Numbers - Plugs

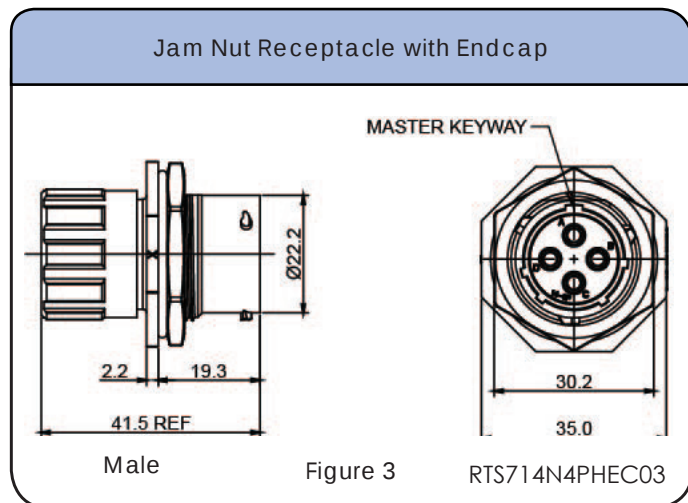
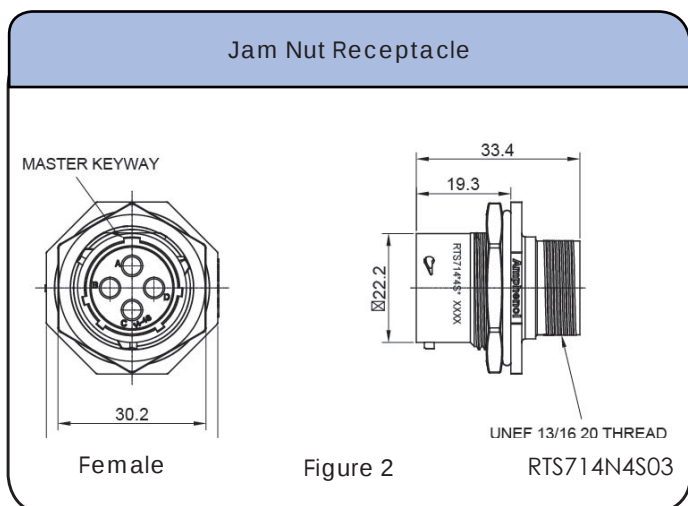
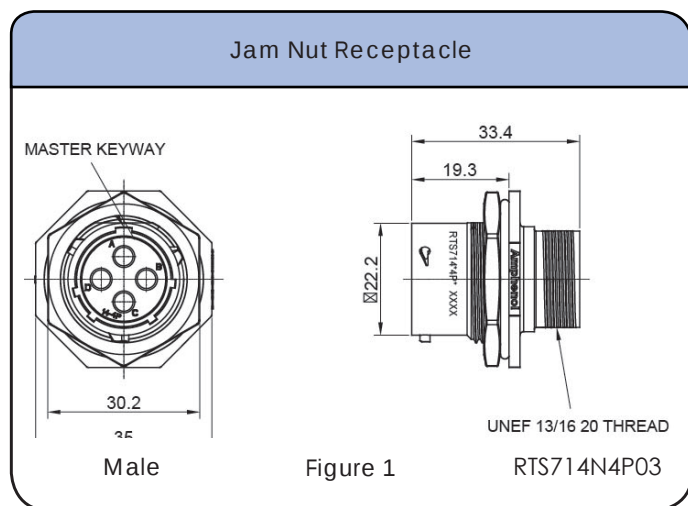
PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS14N4P03	Straight plug with cord grip, 4 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	8
RTS6BS14N4PHEC03	Straight plug with end cap, 4 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	10
RTS6BS14N4S03	Straight plug with cord grip, 4 positions, size 14, socket contact, silicone rubber seal	-40 to 125°C	9
RTS6BS14N4SHEC03	Straight plug with end cap, 4 positions, size 14, socket contact, silicone rubber seal	-40 to 125°C	11

Contacts supplied separately see page 65

Shell Size: 14 Number of Contacts: 4
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 2.5mm

Dimensions Jam Nut Receptacles

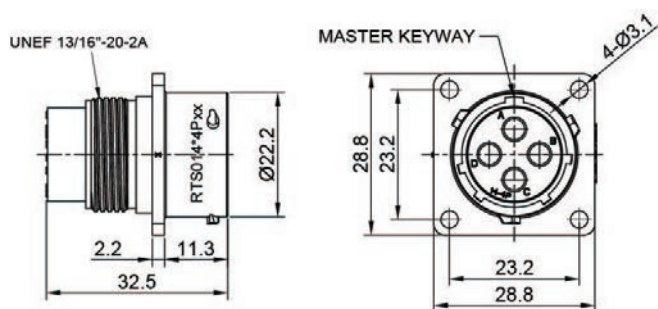


Shell Size: 14 Number of Contacts: 4
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 2.5mm

Dimensions Square Flange Receptacles

Sqaure Flange Receptacle

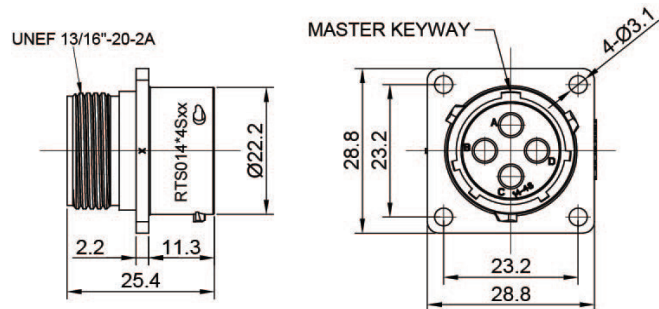


Male

Figure 4

RTS014N4P03

Sqaure Flange Receptacle

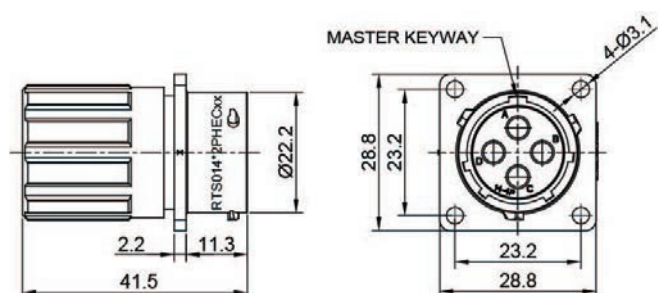


Female

Figure 5

RTS6BS14N4S03

Sqaure Flange Receptacle with Endcap

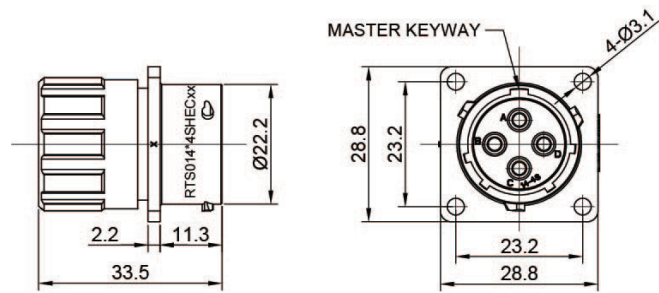


Male

Figure 6

RTS014N4PHEC03

Sqaure Flange Receptacle with Endcap



Female

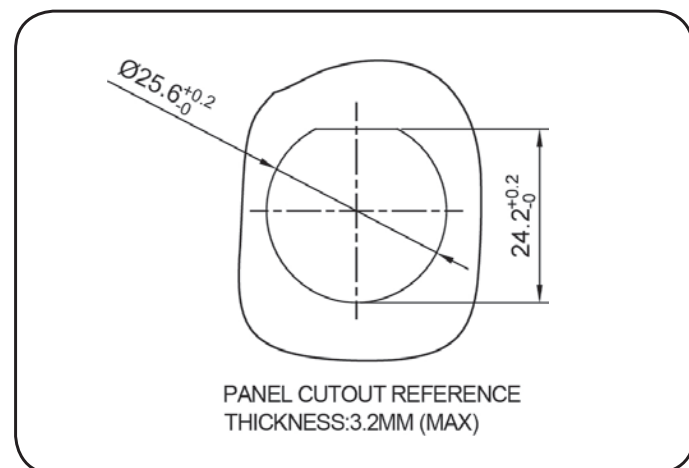
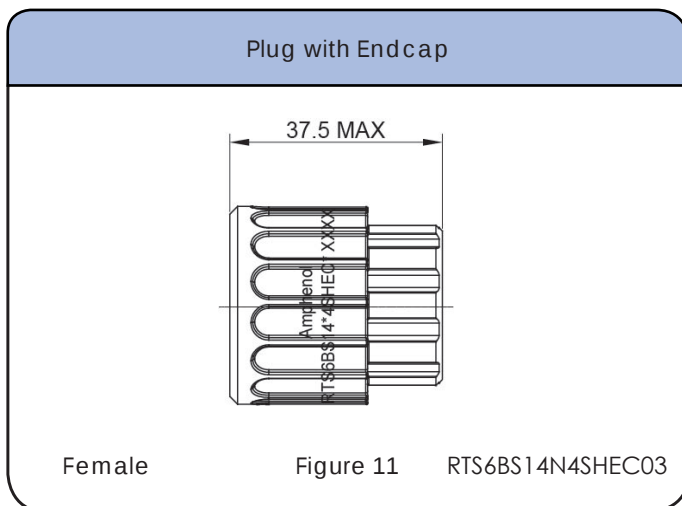
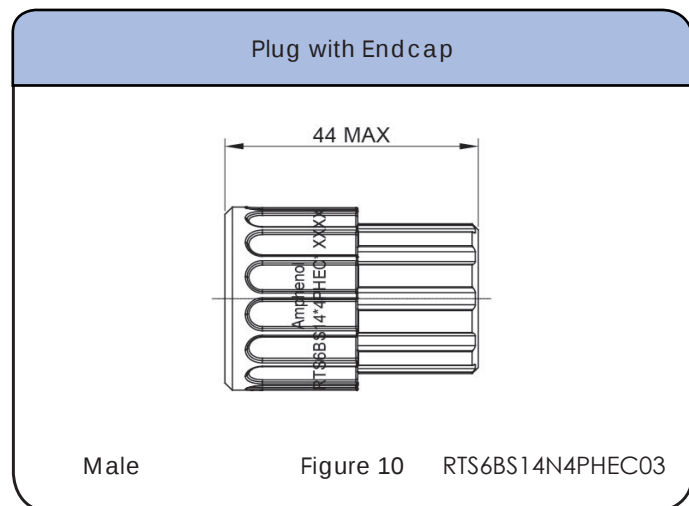
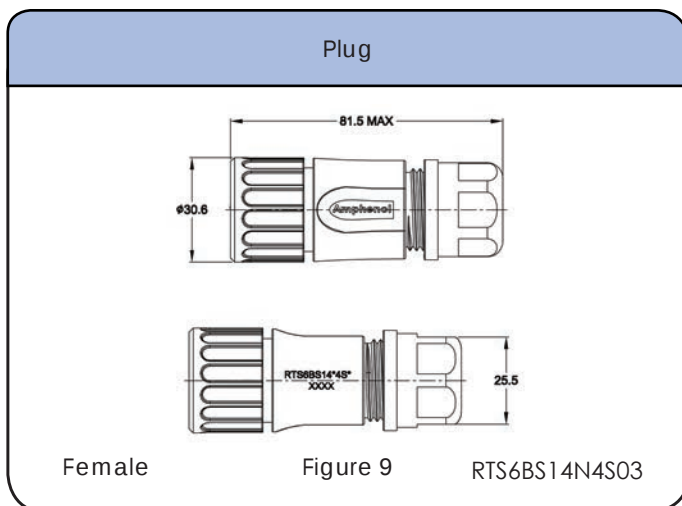
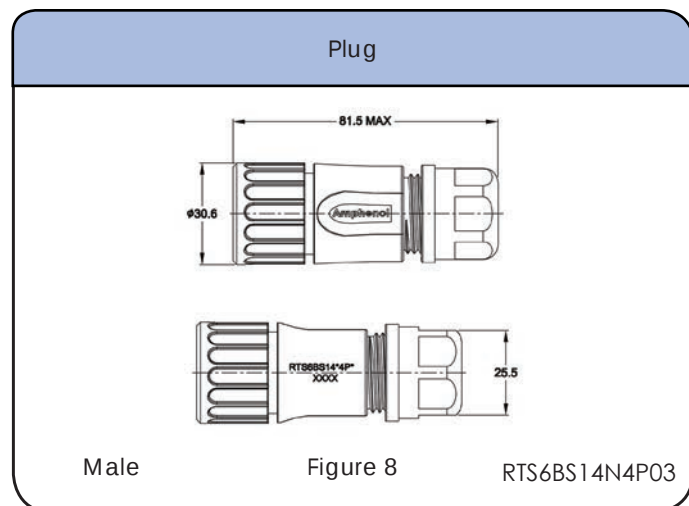
Figure 7

RTS014N4SHEC03

Shell Size: 14 Number of Contacts: 4
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 2.5mm

Dimensions Plugs



Shell Size: 14 Number of Contacts: 4 Contact Size: 2.5mm
Sealing: IP67 / IP69k Salt Spray: 500h

Accessories

Dust Cap for Receptacle, Size 14



RTS014DCG

Dust Cap for Plug, Size 14



RTS614NDCG

Sealing Plug, Size 2.5mm



A114017

Coding Color Ring, Yellow, Size 14



RTS14CCRY

Coding Color Ring, Green, Size 14



RTS14CCRG

Coding Color Ring, Red, Size 14



RTS14CCRR

Contacts



Stamped & Formed Contacts

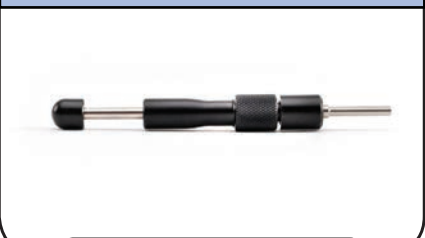
Crimp Contacts, Stamped & Formed

Part Number		AWG	Wire Range (mm²)	Plating
Male	Female			
SP12A1T	SS12A1T	14-12	2.5-3.5	Tin

*No machined contacts are available for this group

Tools

Extraction Tool 2.5mm Contact



QXRT12S

Hand Tool, Stamped & Formed Contact, 2.5 mm



MFX-3962

STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



RTS716N4P03



RTS716N4S03



RTS716N4PHEC03

Square Flange Receptacles



RTS016N4P03



RTS016N4S03



RTS016N4PHEC03



RTS016N4SHEC03

Plug



RTS6BS16N4P03



RTS6BS16N4S03



RTS6BS16N4PHEC03



RTS6BS16N4SHEC03

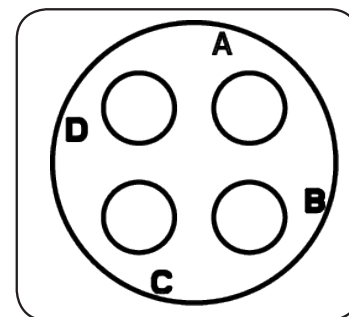
SEE TABLE ON NEXT PAGE FOR PART DETAILS

CONTACTS SOLD SEPARATELY SEE PAGE 70

Shell Size: 16 Number of Contacts: 4 Contact Size: 3.6mm
Sealing: IP67 / IP69k Salt Spray: 500h

eco|mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +125°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers - Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS716N4P03	Receptacle, jam nut, 4 positions, size 16, pin contact, silicone rubber seal	-40 to 125°C	1
RTS716N4PHEC03	Receptacle, jam nut, 4 positions, size 16, pin contact, silicone rubber seal, endcap	-40 to 125°C	3
RTS716N4S03	Receptacle, jam nut, 4 positions, size 16, socket contact, silicone rubber seal	-40 to 125°C	2
RTS016N4P03	Receptacle, square flange, 4 positions, size 16, pin contact, silicone rubber seal	-40 to 125°C	4
RTS016N4PHEC03	Receptacle, square flange, 4 positions, size 16, pin contact, silicone rubber seal, endcap	-40 to 125°C	6
RTS016N4S03	Receptacle, square flange, 4 positions, size 16, socket contact, silicone rubber seal	-40 to 125°C	5
RTS016N4SHEC03	Receptacle, square flange, 4 positions, size 16, socket contact, silicone rubber seal, endcap	-40 to 125°C	7

Connector Part Numbers - Plugs

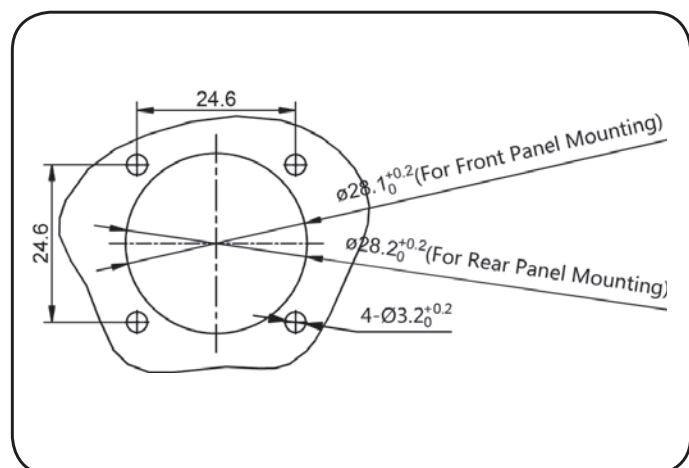
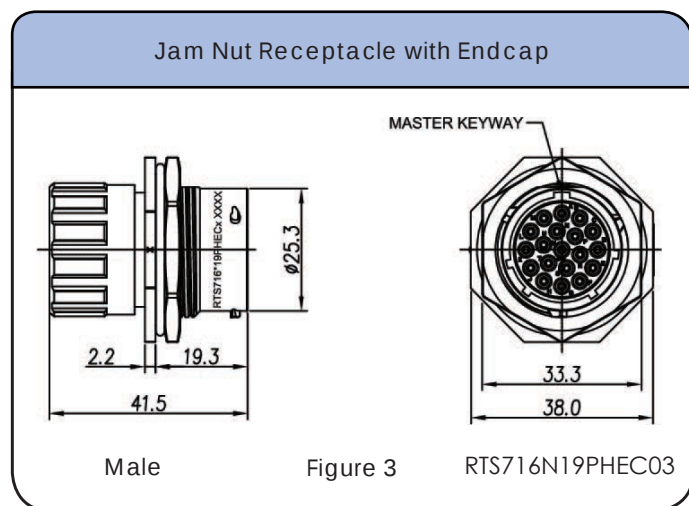
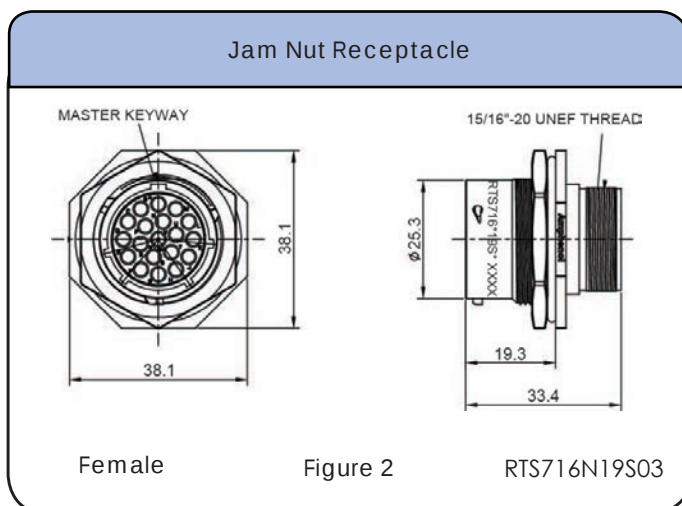
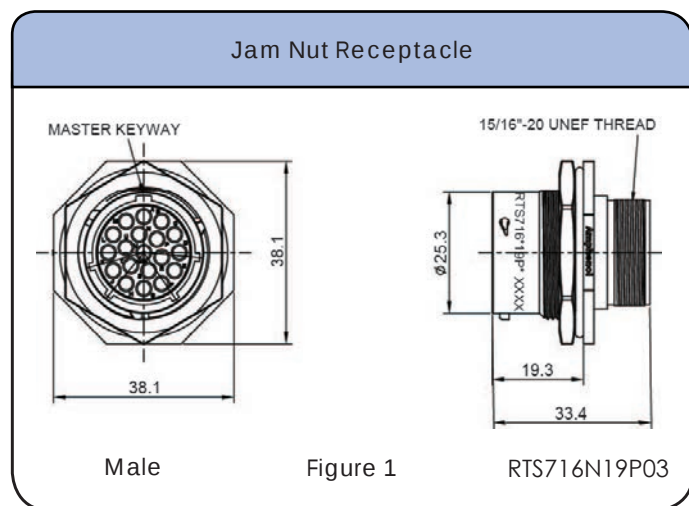
PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS16N4P03	Straight plug with cord grip, 19 positions, size 16, pin contact, silicone rubber seal	-40 to 125°C	8
RTS6BS16N4PHEC03	Straight plug with endcap, 19 positions, size 16, pin contact	40 to 125°C	10
RTS6BS16N4S03	Straight plug with cord grip, 19 positions, size 16, socket contact, silicone rubber seal	-40 to 125°C	9
RTS6BS16N14SHEC03	Straight plug with endcap, 19 positions, size 16, socket contact	40 to 125°C	11

Contacts supplied separately see page 70

Shell Size: 16 Number of Contacts: 4
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 3.6mm

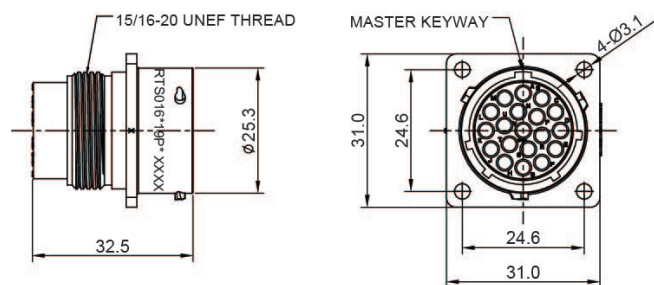
Dimensions Jam Nut



Shell Size: 16 Number of Contacts: 4 Contact Size: 3.6mm
Sealing: IP67 / IP69k Salt Spray: 500h

Dimensions Square Flange Receptacles

Square Flange Receptacle

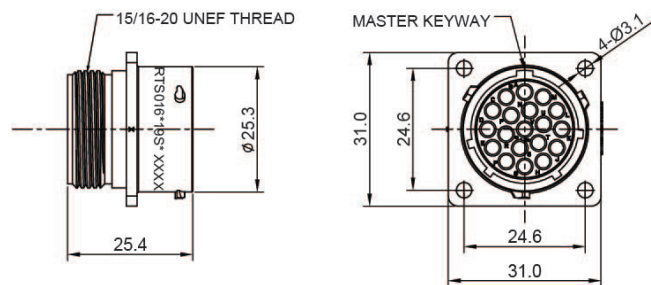


Male

Figure 4

RTS016N19P03

Square Flange Receptacle

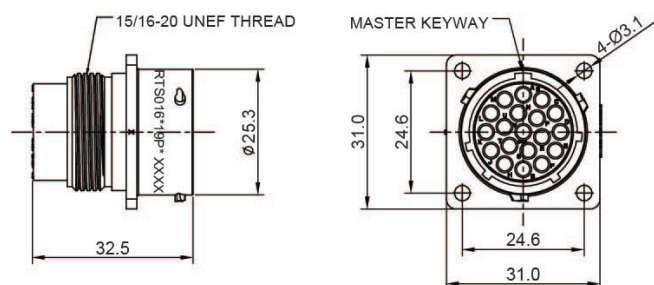


Female

Figure 5

RTS016N19S03

Square Flange Receptacle with End cap

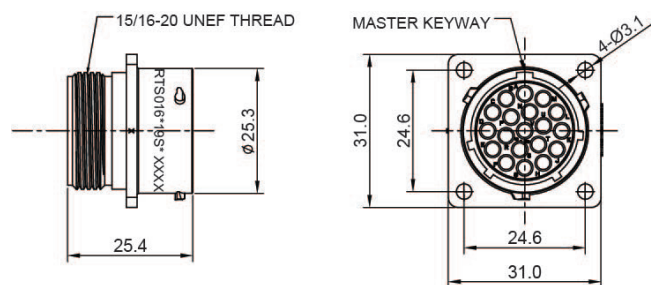


Male

Figure 6

RTS016N19PHEC03

Square Flange Receptacle with End cap



Female

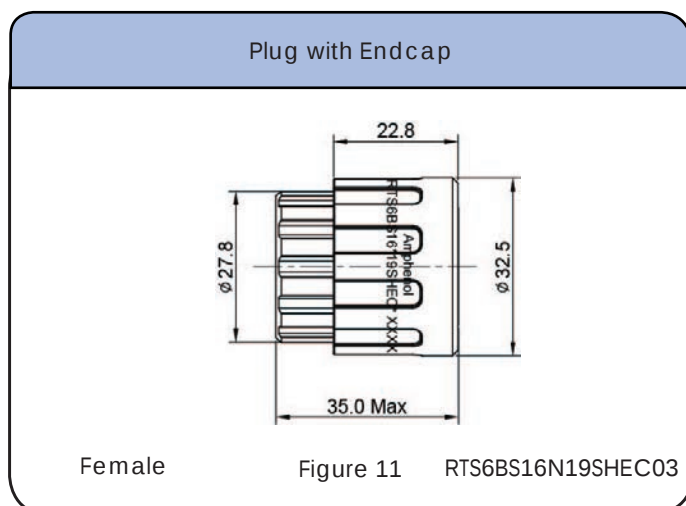
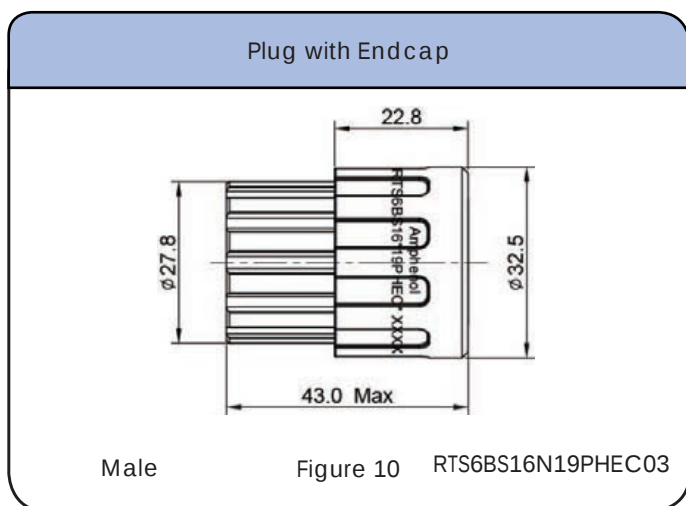
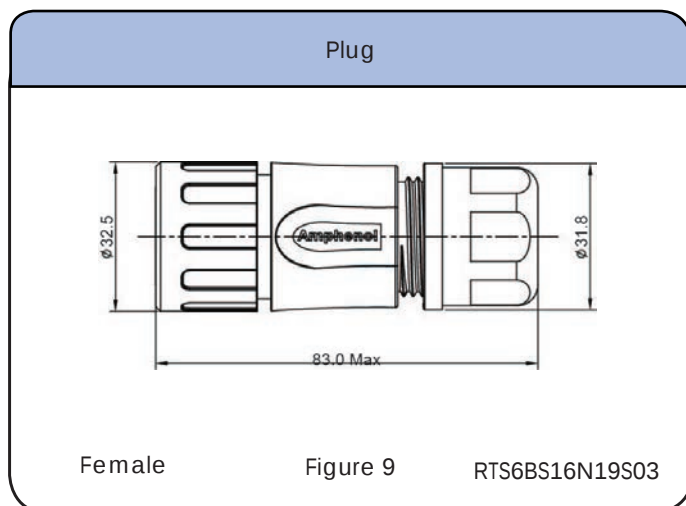
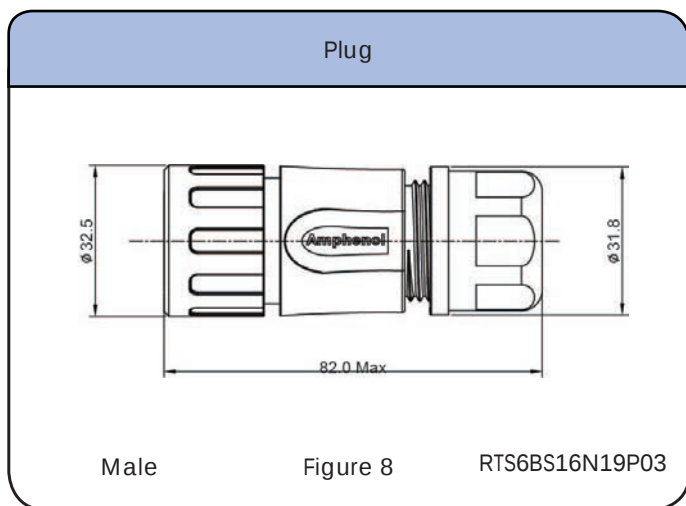
Figure 7

RTS016N19SHEC03

Shell Size: 16 Number of Contacts: 4
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 3.6mm

Dimensions Plugs



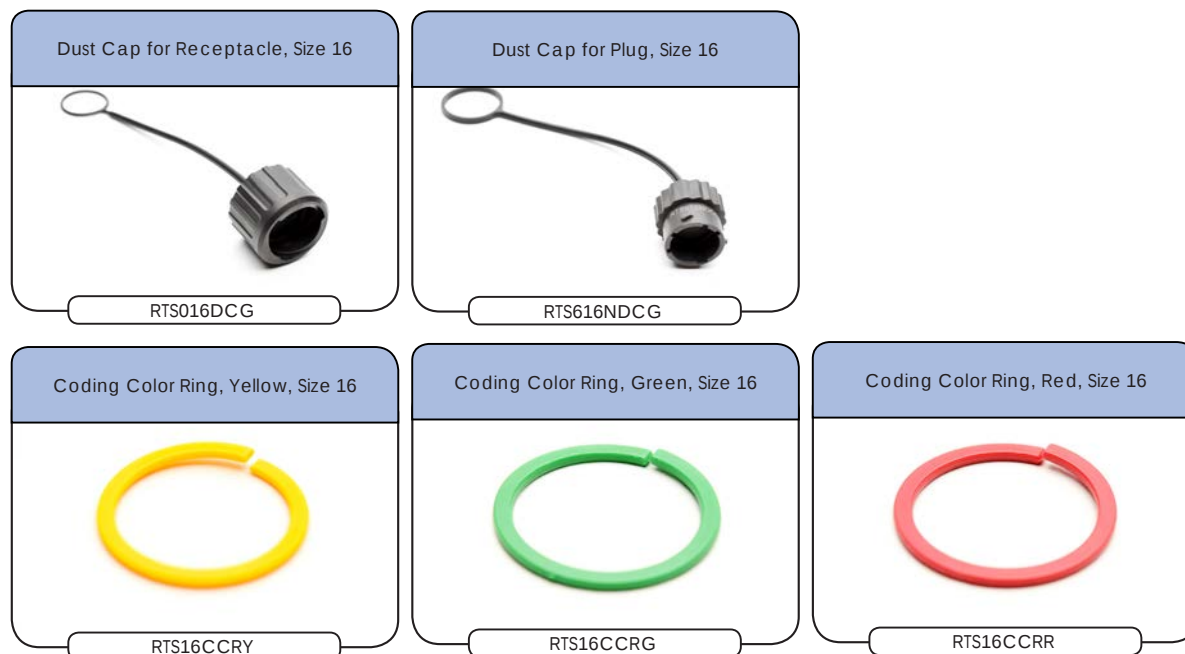
Crimp Contacts, Machined

Part Number		AWG	Wire Range (mm²)	Plating
Male	Female			
MP10A23S	MS10A23S	8	3.0-6.0	Silver Plated

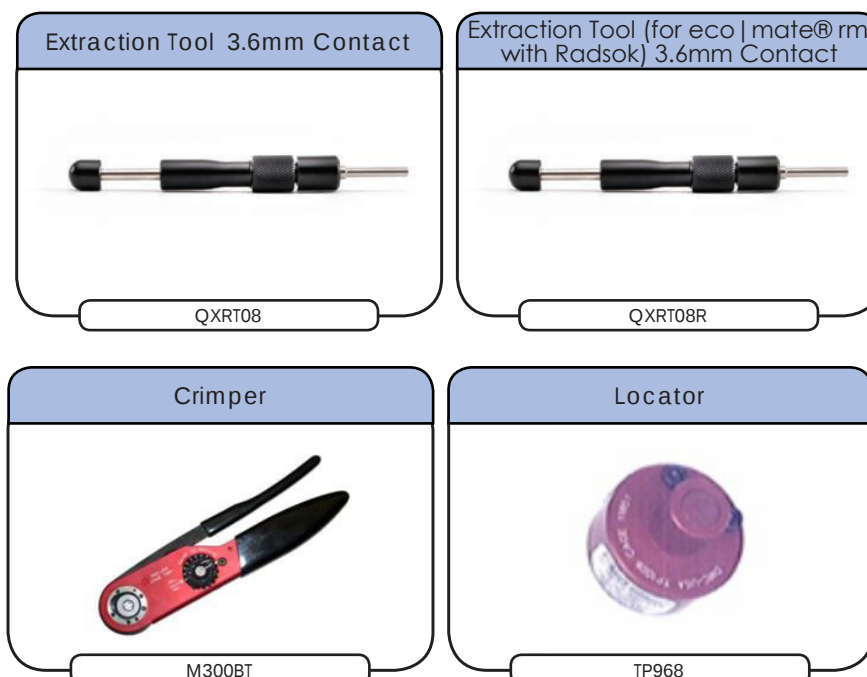
no stamped & formed contacts are available for this group

Shell Size: 16 Number of Contacts: 4 Contact Size: 3.6mm
Sealing: IP67 / IP69k Salt Spray: 500h

Accessories



Tools



STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



RTS710N2P03



RTS710N2S03



RTS710N2PHEC03

Square Flange Receptacles



RTS010N2P03



RTS010N2S03



RTS010N2PHEC03



RTS010N2SHEC03

Plugs



RTS6BS10N2P03



RTS6BS10N2S03



RTS6BS10N2PHEC03



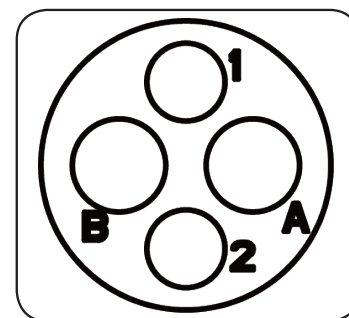
RTS6BS10N2SHEC03

Shell Size: 10 Number of Contacts: 4 (2+2)
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 2-20/2-16

eco|mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +125°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers -Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS710N2P03	Receptacle, jam nut, 2+2 positions, size 10, pin contact, silicone rubber seal	-40 to 125°C	1
RTS710N2PHEC03	Receptacle, jam nut, 2+2 positions, size 10, pin contact, silicone rubber seal with endcap	-40 to 125°C	3
RTS710N2S03	Receptacle, jam nut, 2+2 positions, size 10, socket contact, silicone rubber seal	-40 to 125°C	2
RTS010N2P03	Receptacle, square flange, 2+2 positions, size 10, pin contact, silicone rubber seal	-40 to 125°C	4
RTS010N2PHEC03	Receptacle, square flange, 2+2 positions, size 10, pin contact, silicone rubber seal, with endcap	-40 to 125°C	5
RTS010N2S03	Receptacle, square flange, 2+2 positions, size 10, socket contact, silicone rubber seal	-40 to 125°C	6
RTS010N2SHEC03	Receptacle, square flange, 2+2 positions, size 10, socket contact, silicone rubber seal,with endcap	-40 to 125°C	7

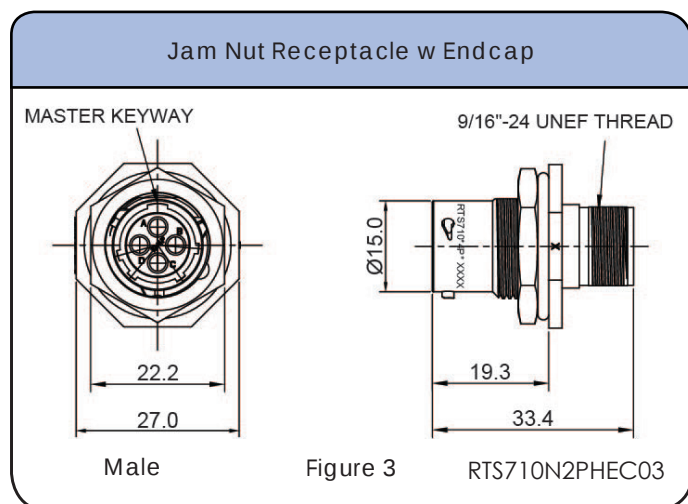
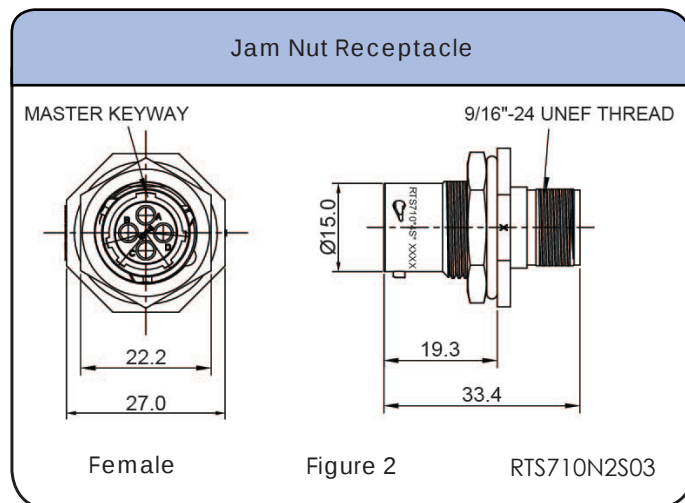
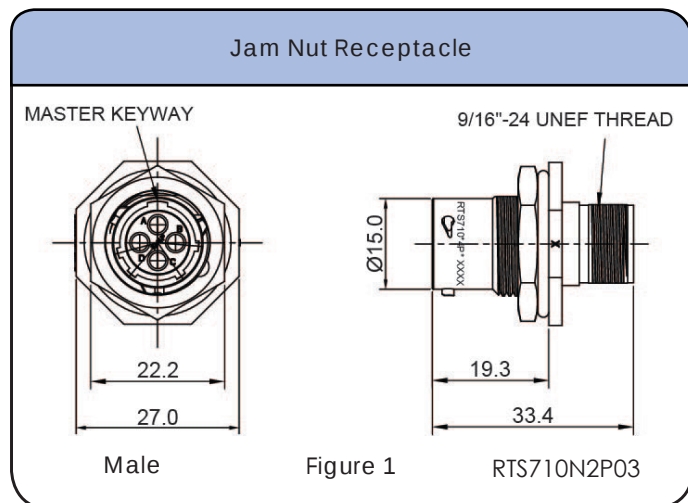
Connector Part Numbers -Plugs

PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS10N2P03	Straight plug with cord grip, 2+2 positions, size 10, pin contact, silicone rubber seal	-40 to 125°C	8
RTS6BS10N2PHEC03	Straight plug with endcap, 2+2 positions, size 10, pin contact, silicone rubber seal	-40 to 125°C	10
RTS6BS10N2S03	Straight plug with cord grip, 2+2 positions, size 10, socket contact, silicone rubber seal	-40 to 125°C	9
RTS6BS10N2SHEC03	Straight plug with endcap, 2+2 positions, size 10, socket contact, silicone rubber seal	-40 to 125°C	11

Contacts supplied separately see page 77

Shell Size: 10 Number of Contacts: 4 (2+2) Contact Size: 2-20/2-16
 Sealing: IP67 / IP69k Salt Spray: 500h

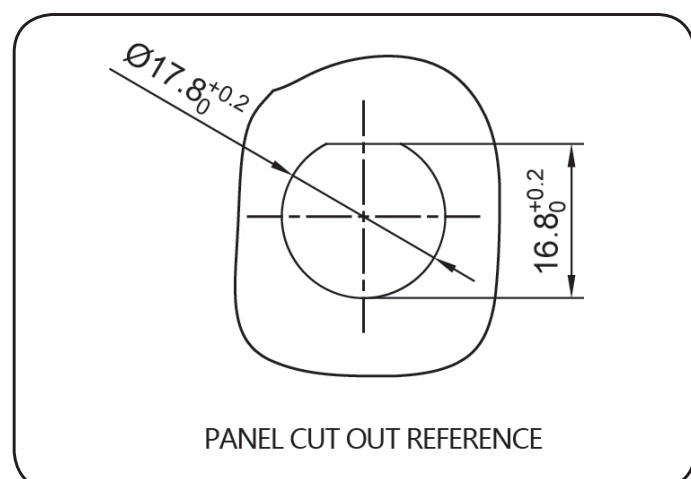
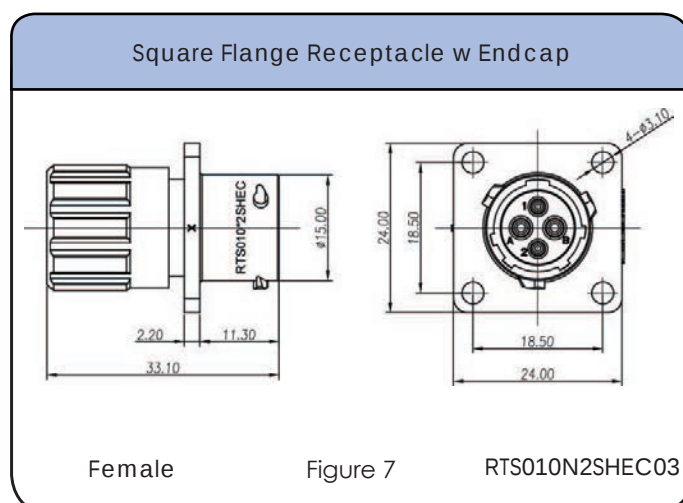
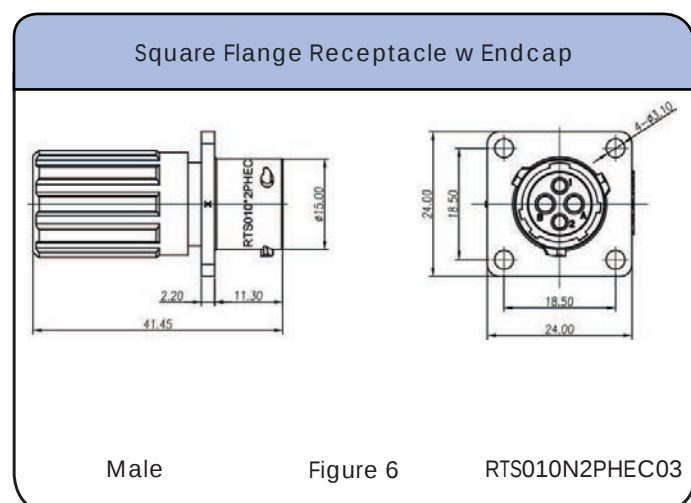
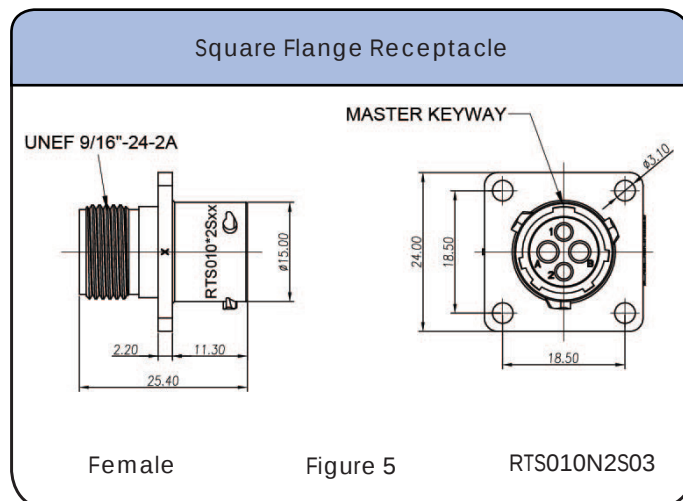
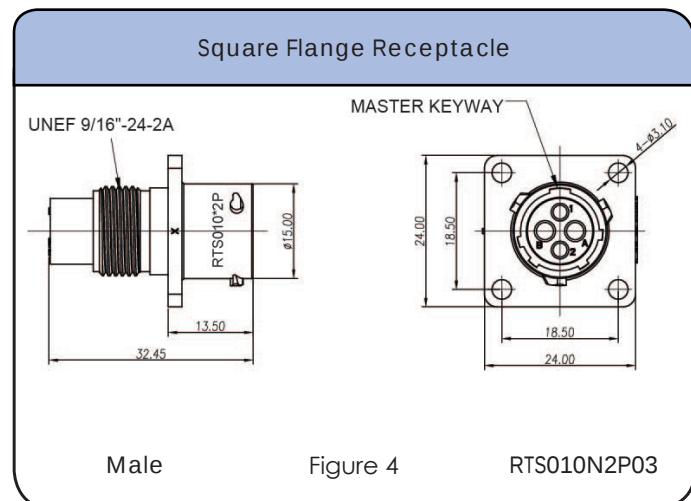
Dimensions Jam Nut



Shell Size: 10 Number of Contacts: 4 (2+2)
Sealing: IP67 / IP69k Salt Spray: 500h

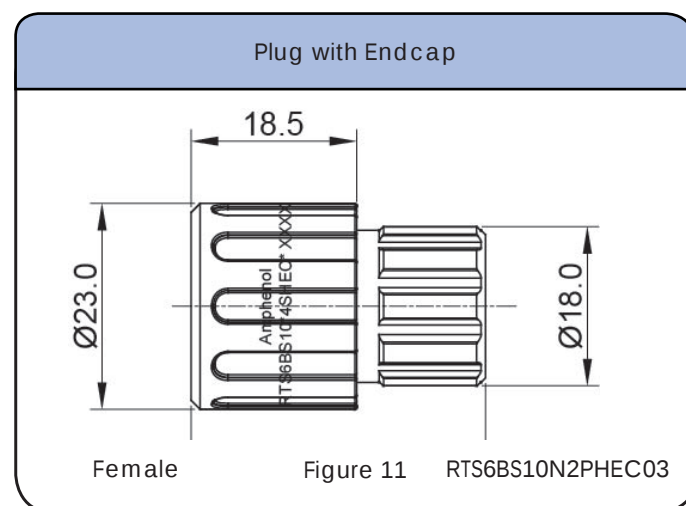
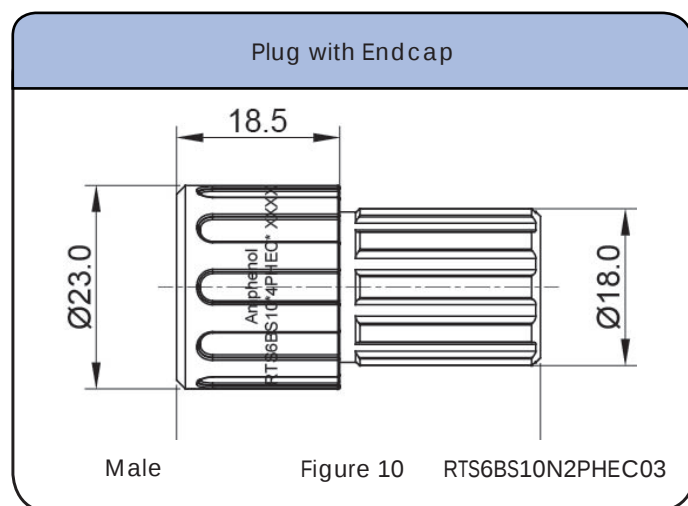
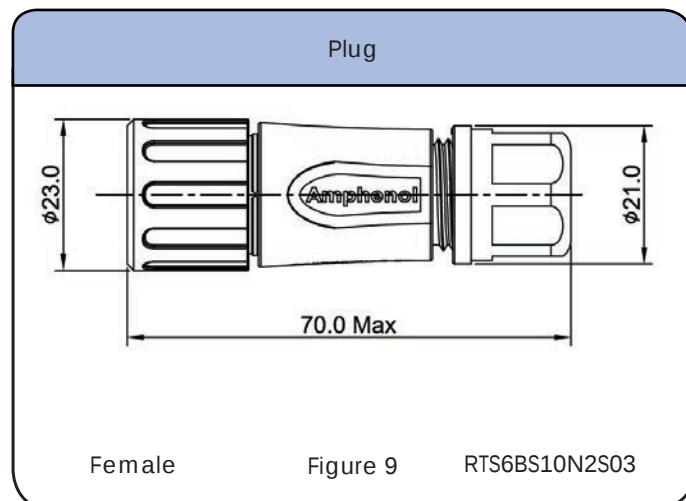
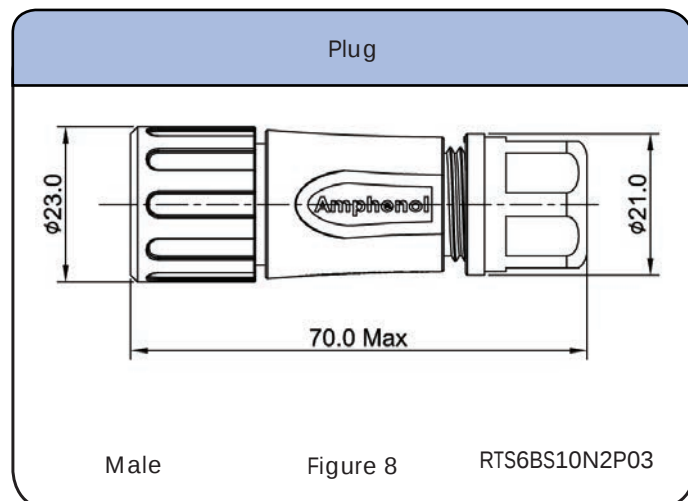
Contact Size: 2-20/2-16

Dimensions Square Flange Receptacles



Shell Size: 10 Number of Contacts: 4 (2+2) Contact Size: 2-20/2-16
 Sealing: IP67 / IP69k Salt Spray: 500h

Dimensions Plugs



Shell Size: 10 Number of Contacts: 4 (2+2) Contact Size: 2-20/2-16
Sealing: IP67 / IP69k Salt Spray: 500h

Contacts Machined



Crimp Contacts, Machined (7.5A Max)

Part Number		Contact Size	AWG	Wire Range (mm ²)	Plating
Male	Female				
MP14M23F	MS14M23F	16	14	2.0-2.5	Gold Flash
MP14M23G5	MS14M23G5	16	14	2.0-2.5	Gold 5μ"
MP14M23G10	MS14M23G10	16	14	2.0-2.5	Gold 10μ"
MP14M23G15	MS14M23G15	16	14	2.0-2.5	Gold 15μ"
MP14M23G30	MS14M23G30	16	14	2.0-2.5	Gold 30μ"
MP16M23F	MS16M23F	16	18-16	.75-1.5	Gold Flash
MP16M23G5	MS16M23G5	16	18-16	.75-1.5	Gold 5μ"
MP16M23G10	MS16M23G10	16	18-16	.75-1.5	Gold 10μ"
MP16M23G15	MS16M23G15	16	18-16	.75-1.5	Gold 15μ"
MP16M23G30	MS16M23G30	16	18-16	.75-1.5	Gold 30μ"
MP20M23F	MS20M23F	16	22-20	.34-.50	Gold Flash
MP20M23G5	MS20M23G5	16	22-20	.34-.50	Gold 5μ"
MP20M23G10	MS20M23G10	16	22-20	.34-.50	Gold 10μ"
MP20M23G15	MS20M23G15	16	22-20	.34-.50	Gold 15μ"
MP20M23G30	MS20M23G30	16	22-20	.34-.50	Gold 30μ"
MP24M23F	MS24M23F	16	26-24	.14-.25	Gold Flash
MP24M23G5	MS24M23G5	16	26-24	.14-.25	Gold 5μ"
MP24M23G10	MS24M23G10	16	26-24	.14-.25	Gold 10μ"
MP24M23G15	MS24M23G15	16	26-24	.14-.25	Gold 15μ"
MP24M23G30	MS24M23G30	16	26-24	.14-.25	Gold 30μ"

Shell Size: 10 Number of Contacts: 4 (2+2) Contact Size: 2-20/2-16
 Sealing: IP67 / IP69k Salt Spray: 500h

Contacts Machined (con't)



Crimp Contacts, Machined (7.5A Max)

Part Number		Size	AWG	Wire Ranget (mm ²)	Plating
Male	Female				
MP20W23F	MS20W23F	20	22-20	.34-.50	Gold Flash
MP20W23G5	MS20W23G5	20	22-20	.34-.50	Gold 5μ"
MP20W23G10	MS20W23G10	20	22-20	.34-.50	Gold 10μ"
MP20W23G15	MS20W23G15	20	22-20	.34-.50	Gold 15μ"
MP20W23G30	MS20W23G30	20	22-20	.34-.50	Gold 30μ"
MP24W23F	MS24W23F	20	26-24	.13-.25	Gold Flash
MP24W23G5	MS24W23G5	20	26-24	.13-.25	Gold 5μ"
MP24W23G10	MS24W23G10	20	26-24	.13-.25	Gold 10μ"
MP24W23G15	MS24W23G15	20	26-24	.13-.25	Gold 15μ"
MP24W23G30	MS24W23G30	20	26-24	.13-.25	Gold 30μ"
MP28W23F	MS28W23F	20	30-28	.05-.08	Gold Flash
MP28W23G5	MS28W23G5	20	30-28	.05-.08	Gold 5μ"
MP28W23G10	MS28W23G10	20	30-28	.05-.08	Gold 10μ"
MP28W23G15	MS28W23G15	20	30-28	.05-.08	Gold 15μ"
MP28W23G30	MS28W23G30	20	30-28	.05-.08	Gold 30μ"

Tools

Contact Extraction Tool,
#20 (Ø 1.6) Contact



QXRT20

Hand Crimp Tool for
Machined Contacts



MFV-3959

Pneumatic Crimp Tool for
Machined Contact



MFV-3960

Shell Size: 10 Number of Contacts: 4 (2+2)
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 2-20/2-16

Contacts Stamped & Formed



Stamped & Formed Contacts

Crimp Contacts, Stamped & Formed

Part Number		Size	AWG	Wire Range (mm ²)	Plating
Male	Female				
SP14M2F	SS14M2F	16	14	2.0-2.5	Gold Flash
SP14M2G5	SS14M2G5	16	14	2.0-2.5	Gold 5μ"
SP14M2G10	SS14M2G10	16	14	2.0-2.5	Gold 10μ"
SP14M2G15	SS14M2G15	16	14	2.0-2.5	Gold 15μ"
SP14M2G30	SS14M2G30	16	14	2.0-2.5	Gold 30μ"
SP16M2F	SS16M2F	16	18-16	.75-1.5	Gold Flash
SP16M2G5	SS16M2G5	16	18-16	.75-1.5	Gold 5μ"
SP16M2G10	SS16M2G10	16	18-16	.75-1.5	Gold 10μ"
SP16M2G15	SS16M2G15	16	18-16	.75-1.5	Gold 15μ"
SP16M2G30	SS16M2G30	16	18-16	.75-1.5	Gold 30μ"
SP20M2F	SS20M2F	16	22-20	.34-.50	Gold Flash
SP20M2G5	SS20M2G5	16	22-20	.34-.50	Gold 5μ"
SP20M2G10	SS20M2G10	16	22-20	.34-.50	Gold 10μ"
SP20M2G15	SS20M2G15	16	22-20	.34-.50	Gold 15μ"
SP20M2G30	SS20M1G30	16	22-20	.34-.50	Gold 30μ"
SP24M2F	SS24M2F	16	26-24	.14-.25	Gold Flash
SP24M2G5	SS24M2G5	16	26-24	.14-.25	Gold 5μ"
SP24M2G10	SS24M2G10	16	26-24	.14-.25	Gold 10μ"
SP24M2G15	SS24M2G15	16	26-24	.14-.25	Gold 15μ"
SP24M2G30	SS24M2G30	16	26-24	.14-.25	Gold 30μ"

Tools

Contact Extraction Tool,
#16 (Ø 1.6) Contact



QXRT16

Hand Tool, Stamped & Formed
Contact, Size 16 20-14AWG



MFX-3954

Crimp Die for Stamped &
Formed Contact



MFX-3957

Shell Size: 10 Number of Contacts: 4 (2+2) Contact Size: 2-20/2-16
Sealing: IP67 / IP69k Salt Spray: 500h

Crimp Contacts, Stamped & Formed (con't)

Part Number		Contact Size	AWG	Wire Range (mm ²)	Plating
Male	Female				
SP20W2F	SS20W2F	20	22-20	.34-.50	Gold Flash
SP20W2G5	SS20W2G5	20	22-20	.34-.50	Gold 5μ"
SP20W2G10	SS20W2G10	20	22-20	.34-.50	Gold 10μ"
SP20W2G15	SS20W2G15	20	22-20	.34-.50	Gold 15μ"
SP20W2G30	SS20W2G30	20	22-20	.34-.50	Gold 30μ"
SP24W2F	SS24W2F	20	26-24	.14-.25	Gold Flash
SP24W2G5	SS24W2G5	20	26-24	.14-.25	Gold 5μ"
SP24W2G10	SS24W2G10	20	26-24	.14-.25	Gold 10μ"
SP24W2G15	SS24W2G15	20	26-24	.14-.25	Gold 15μ"
SP24W2G30	SS24W2G30	20	26-24	.14-.25	Gold 30μ"
SP28W2F	SS28W2F	20	30-28	.05-.08	Gold Flash
SP28W2G5	SS28W2G5	20	30-28	.05-.08	Gold 5μ"
SP28W2G10	SS28W2G10	20	30-28	.05-.08	Gold 10μ"
SP28W2G15	SS28W2G15	20	30-28	.05-.08	Gold 15μ"
SP28W2G30	SS28W2G30	20	30-28	.05-.08	Gold 30μ"

Shell Size: 10 Number of Contacts: 4 (2+2)
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 2-20/2-16

Accessories

Dust Cap for Receptacle, Size 10



RTS010DCG

Dust Cap for Plug, Size 10



RTS610NDCG

Sealing Plug, Size 16



A114017-SR

Sealing Plug, Size 20



AT13-204-2005

Coding Color Ring, Yellow, Size 10



RTS10CCRY

Coding Color Ring, Green, Size 10



RTS10CCRG

Coding Color Ring, Red, Size 10



RTS10CCRR

STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



RTS712N2P03



RTS712N2S03



RTS712N2PHEC03

Square Flange Receptacles



RTS012N2P03



RTS012N2S03



RTS012N2PHEC03



RTS012N2SHEC03

Plugs



RTS6BS12N2P03



RTS6BS12N2S03



RTS6BS12N2PHEC03



RTS6BS12N2SHEC03

SEE TABLE ON NEXT PAGE FOR PART DETAILS

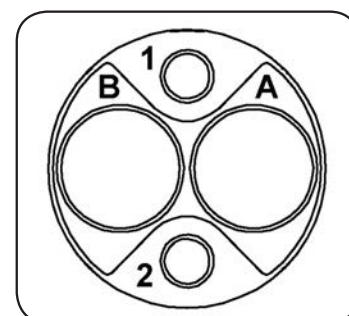
CONTACTS SOLD SEPARATELY SEE PAGE 88

Shell Size: 12 Number of Contacts: 4 (2+2)
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 2-20/2-2.5mm

eco | mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +125°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers -Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS712N2P03	Receptacle, jam nut, 2+2 positions, size 12, pin contact, silicone rubber seal	-40 to 125°C	1
RTS712N2PHEC03	Receptacle, jam nut, 2+2 positions, size 12, pin contact, silicone rubber seal, with endcap	-40 to 125°C	3
RTS712N2S03	Receptacle, jam nut, 2+2 positions, size 12, socket contact, silicone rubber seal	-40 to 125°C	2
RTS012N2P03	Receptacle, square flange, 2+2 positions, size 12, pin contact, silicone rubber seal	-40 to 125°C	4
RTS012N2PHEC03	Receptacle, square flange, 2+2 positions, size 12, pin contact, silicone rubber seal, endcap	-40 to 125°C	6
RTS012N2S03	Receptacle, square flange, 2+2 positions, size 12, socket contact, silicone rubber seal	-40 to 125°C	5
RTS012N2SHEC03	Receptacle, square flange, 2+2 positions, size 12, socket contact, silicone rubber seal, endcap	-40 to 125°C	8

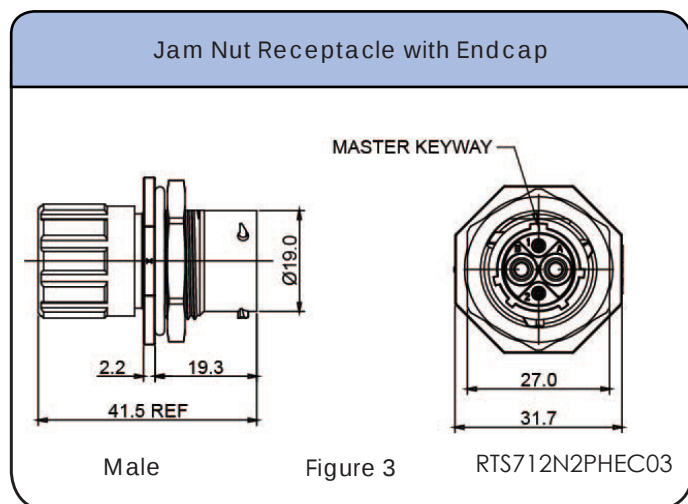
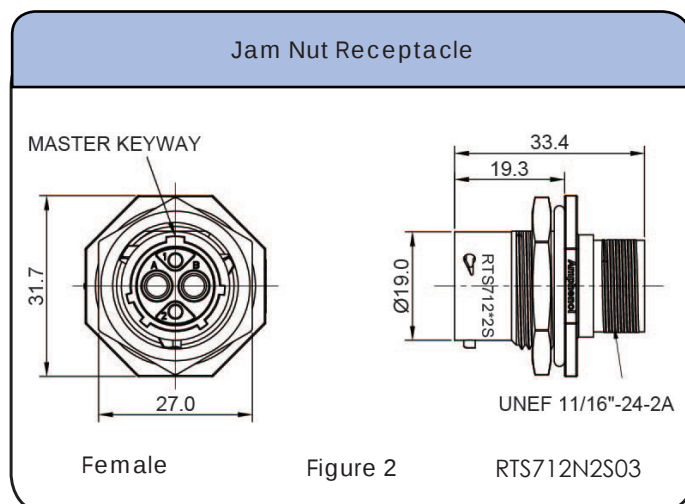
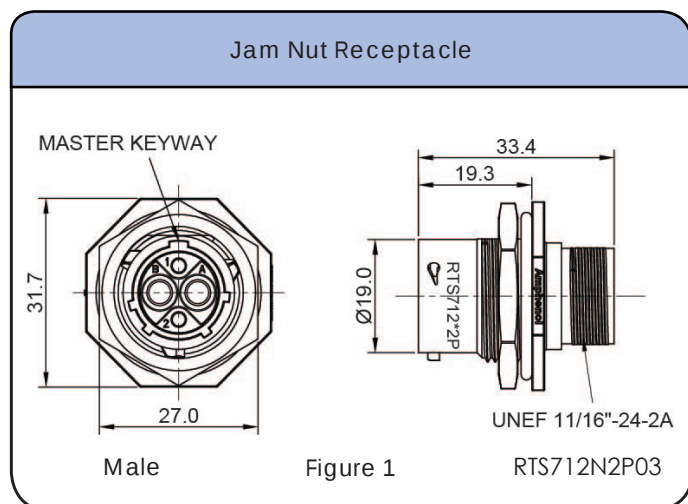
Connector Part Numbers -Plugs

PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS12N2P03	Straight plug with cord grip, 2+2 positions, size 12, pin contact, silicone rubber seal	-40 to 125°C	9
RTS6BS12N2PHEC03	Straight plug with end cap, 2+2 positions, size 12, pin contact, silicone rubber seal	-40 to 125°C	11
RTS6BS12N2S03	Straight plug with cord grip, 2+2 positions, size 12, socket contact, silicone rubber seal	-40 to 125°C	10
RTS6BS12N2SHEC03	Straight plug with end cap, 2+2 positions, size 12, socket contact, silicone rubber seal	-40 to 125°C	12

Contacts supplied separately see page 88

Shell Size: 12 Number of Contacts: 4 (2+2) Contact Size: 2-20/2-2.5mm
 Sealing: IP67 / IP69k Salt Spray: 500h

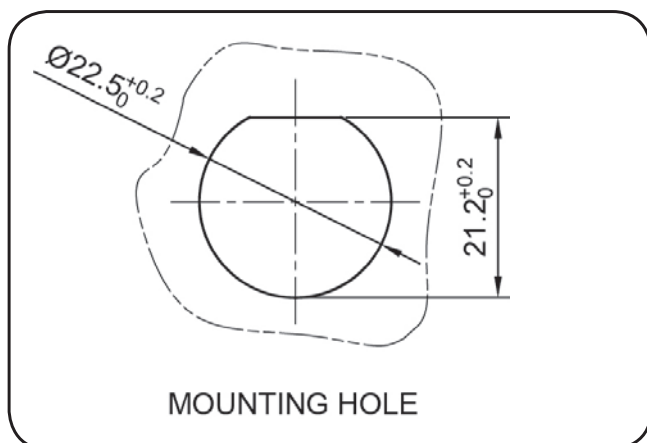
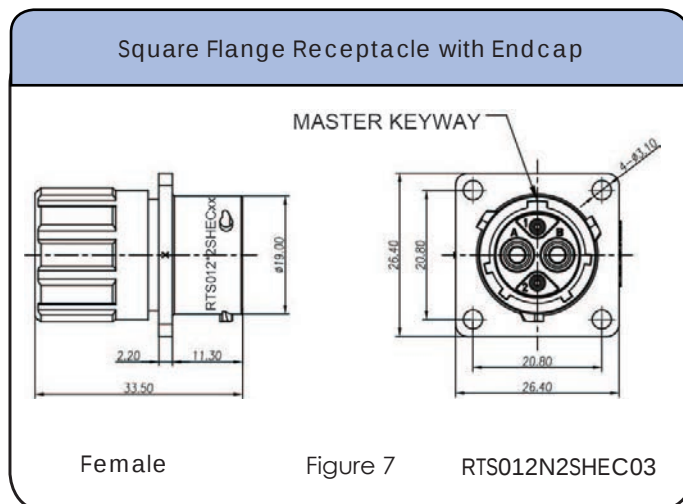
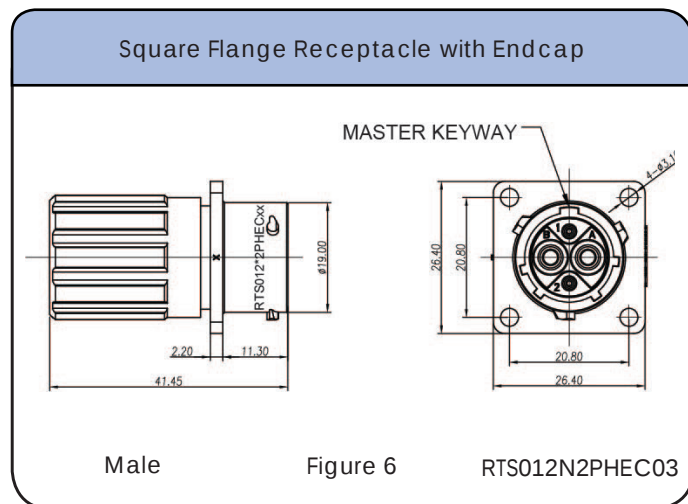
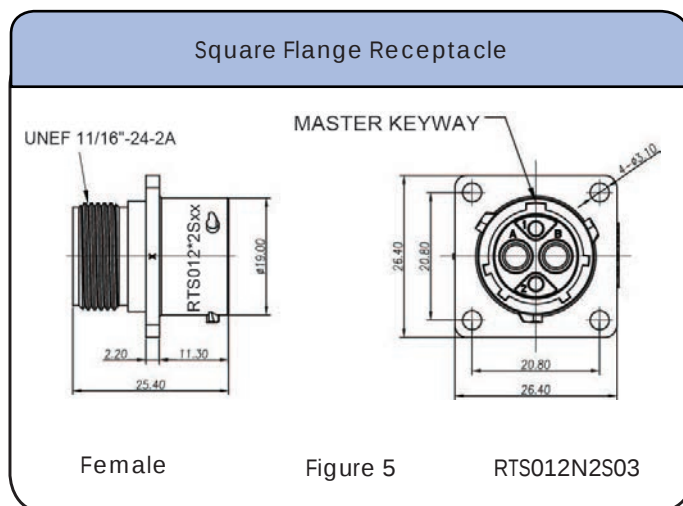
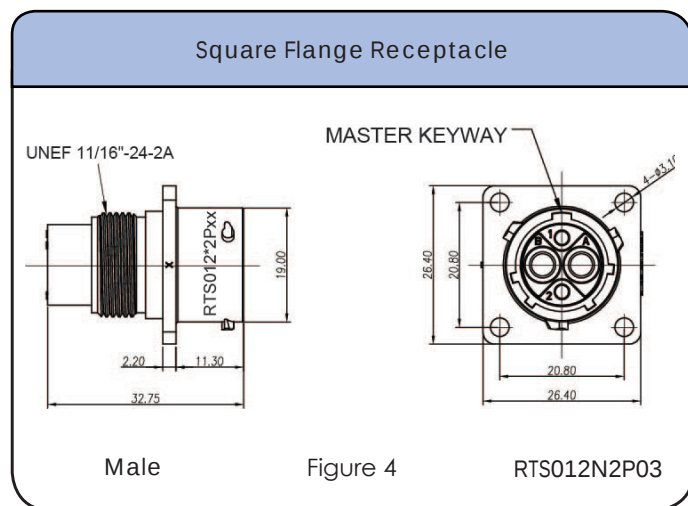
Dimensions Jam Nut Receptacle



Shell Size: 12 Number of Contacts: 4 (2+2)
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 2-20/2-2.5mm

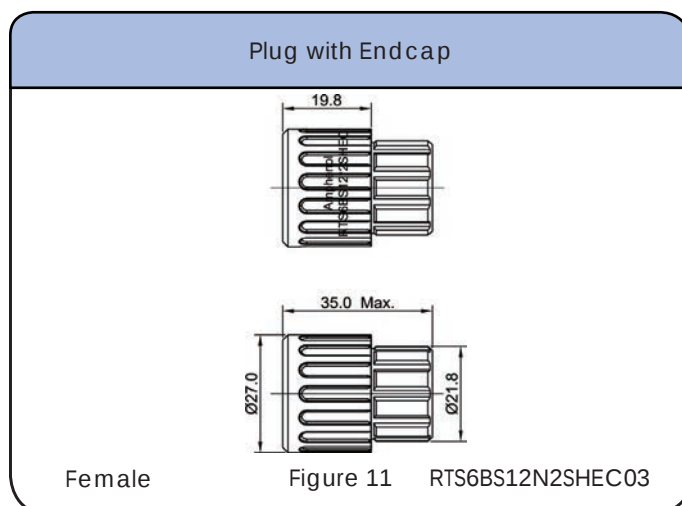
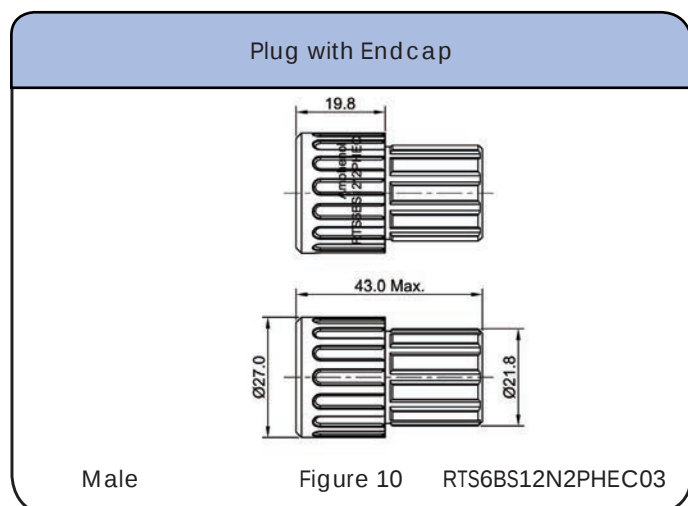
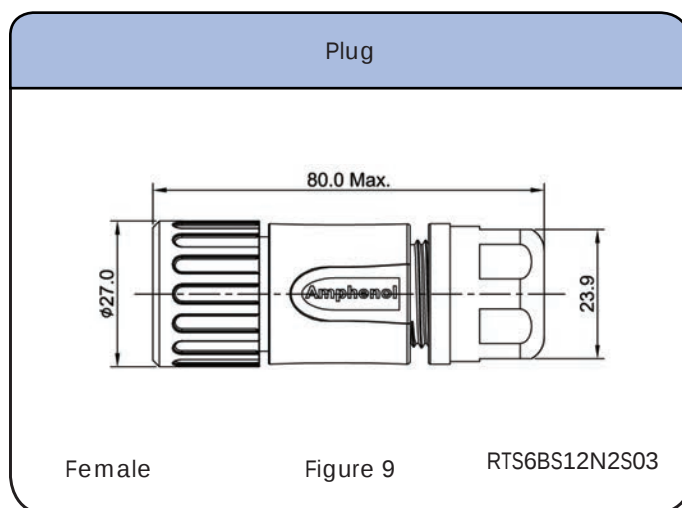
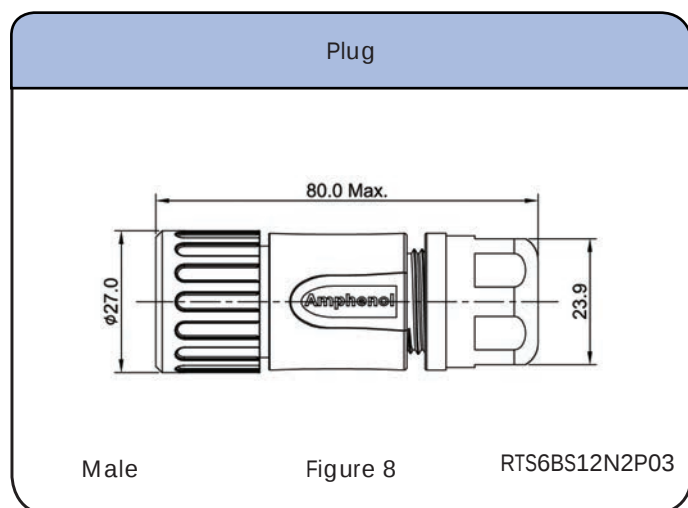
Dimensions Square Flange Receptacle



Shell Size: 12 Number of Contacts: 4 (2+2)
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 2-20/2-2.5mm

Dimensions Plug



Shell Size: 12 Number of Contacts: 4 (2+2)
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 2-20/2-2.5mm

Accessories

Dust Cap for Receptacle, Size 12



RTS012DCG

Dust Cap for Plug, Size 12



RTS612NDCG

Sealing Plug, Size 20



AT13-204-2005

Sealing Plug, Size 2.5mm



A114017

Coding Color Ring, Yellow, Size 12



RTS12CCRY

Coding Color Ring, Green, Size 12



RTS12CCRG

Coding Color Ring, Red, Size 12



RTS12CCRR

Shell Size: 12 Number of Contacts: 4 (2+2) Contact Size: 2-20/2-2.5mm
 Sealing: IP67 / IP69k Salt Spray: 500h

Contacts Machined



Crimp Contacts, Machined (7.5A Max)

Part Number		Contact Size	AWG	Wire Range (mm²)	Plating
Male	Female				
MP20W23F	MS20W23F	20	22-20	.34-.50	Gold Flash
MP20W23G5	MS20W23G5	20	22-20	.34-.50	Gold 5μ"
MP20W23G10	MS20W23G10	20	22-20	.34-.50	Gold 10μ"
MP20W23G15	MS20W23G15	20	22-20	.34-.50	Gold 15μ"
MP20W23G30	MS20W23G30	20	22-20	.34-.50	Gold 30μ"
MP24W23F	MS24W23F	20	26-24	.13-.25	Gold Flash
MP24W23G5	MS24W23G5	20	26-24	.13-.25	Gold 5μ"
MP24W23G10	MS24W23G10	20	26-24	.13-.25	Gold 10μ"
MP24W23G15	MS24W23G15	20	26-24	.13-.25	Gold 15μ"
MP24W23G30	MS24W23G30	20	26-24	.13-.25	Gold 30μ"
MP28W23F	MS28W23F	20	30-28	.05-.08	Gold Flash
MP28W23G5	MS28W23G5	20	30-28	.05-.08	Gold 5μ"
MP28W23G10	MS28W23G10	20	30-28	.05-.08	Gold 10μ"
MP28W23G15	MS28W23G15	20	30-28	.05-.08	Gold 15μ"
MP28W23G30	MS28W23G30	20	30-28	.05-.08	Gold 30μ"

Tools

Contact Extraction Tool,
#20 (Ø 1.0) Contact



QXRT20

Hand Crimp Tool for
Machined Contacts



MFX-3959

Pneumatic Crimp Tool for
Machined Contact



MFX-3960

Shell Size: 12 Number of Contacts: 4 (2+2)
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 2-20/2-2.5mm

Contacts Stamped & Formed



Crimp Contacts, Stamped & Formed

Part Number		Contact Size	AWG	Wire Range (mm²)	Plating
Male	Female				
SP12A1T	SS12A1T	2.5mm	14-12	2.5-3.5	Tin
SP20W2F	SS20W2F	20	22-20	.34-.50	Gold Flash
SP20W2G5	SS20W2G5	20	22-20	.34-.50	Gold 5µ"
SP20W2G10	SS20W2G10	20	22-20	.34-.50	Gold 10µ"
SP20W2G15	SS20W2G15	20	22-20	.34-.50	Gold 15µ"
SP20W2G30	SS20W2G30	20	22-20	.34-.50	Gold 30µ"
SP24W2F	SS24W2F	20	26-24	.14-.25	Gold Flash
SP24W2G5	SS24W2G5	20	26-24	.14-.25	Gold 5µ"
SP24W2G10	SS24W2G10	20	26-24	.14-.25	Gold 10µ"
SP24W2G15	SS24W2G15	20	26-24	.14-.25	Gold 15µ"
SP24W2G30	SS24W2G30	20	26-24	.14-.25	Gold 30µ"
SP28W2F	SS28W2F	20	30-28	.05-.08	Gold Flash
SP28W2G5	SS28W2G5	20	30-28	.05-.08	Gold 5µ"
SP28W2G10	SS28W2G10	20	30-28	.05-.08	Gold 10µ"
SP28W2G15	SS28W2G15	20	30-28	.05-.08	Gold 15µ"
SP28W2G30	SS28W2G30	20	30-28	.05-.08	Gold 30µ"

Tools

Extraction Tool 2.5mm Contact



QXRT12S

Contact Extraction Tool, #20 (Ø 1.0) Contact



QXRT20

Hand Tool, Stamped & Formed Contact, 2.5 mm



MF3-3962

Hand Tool for Stamped & Formed Contact, Size 20, 20-28AWG



MF3-3958

Crimp Die for Stamped & Formed Contact



MF3-3957

STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



RTS714N2P03



RTS714N2S03



RTS714N2PHEC03

Square Flange Receptacles



RTS014N2P03



RTS014N2S03



RTS014N2PHEC03



RTS014N2SHEC03

Plugs



RTS6BS14N2P03



RTS6BS14N2S03



RTS6BS14N2PHEC03



RTS6BS14N2SHEC03

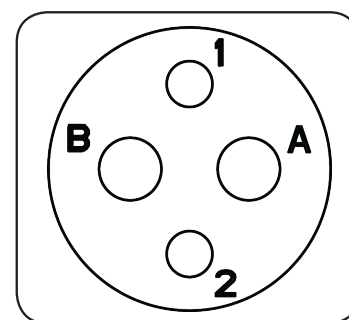
Shell Size: 14 Number of Contacts: 4 (2+2)

Contact Size: 2-16/2-2.5mm

Sealing: IP67 / IP69k Salt Spray: 500h

eco|mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +125°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers - Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS714N2P03	Receptacle, jam nut, 2+2 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	1
RTS714N2PHEC03	Receptacle, jam nut, 2+2 positions, size 14, pin contact, silicone rubber seal, endcap	-40 to 125°C	3
RTS714N2S03	Receptacle, jam nut, 2+2 positions, size 14, socket contact, silicone rubber seal	-40 to 125°C	2
RTS0114N2P03	Receptacle, square flange, 4 (2+2) positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	4
RTS0114N2PHEC03	Receptacle, square flange, 4 (2+2) positions, size 14, pin contact, silicone rubber seal, endcap	-40 to 125°C	6
RTS0114N2S03	Receptacle, square flange, 4 (2+2) positions, size 14, socket contact, silicone rubber seal	-40 to 125°C	5
RTS0114N2SHEC03	Receptacle, square flange, 4 (2+2) positions, size 14, socket contact, silicone rubber seal, endcap	-40 to 125°C	7

Connector Part Numbers - Plugs

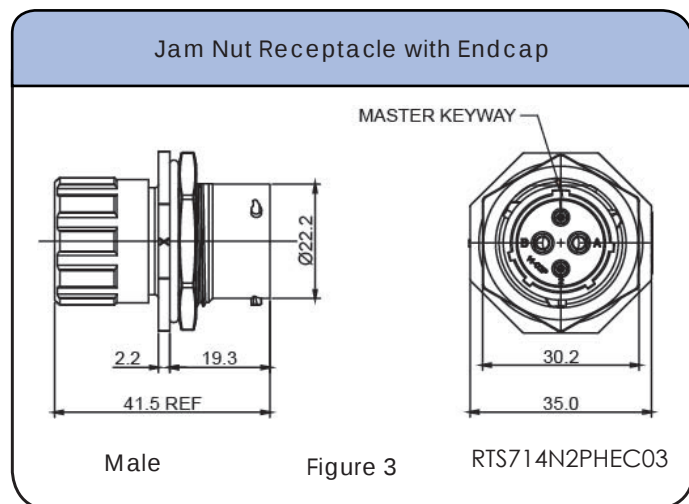
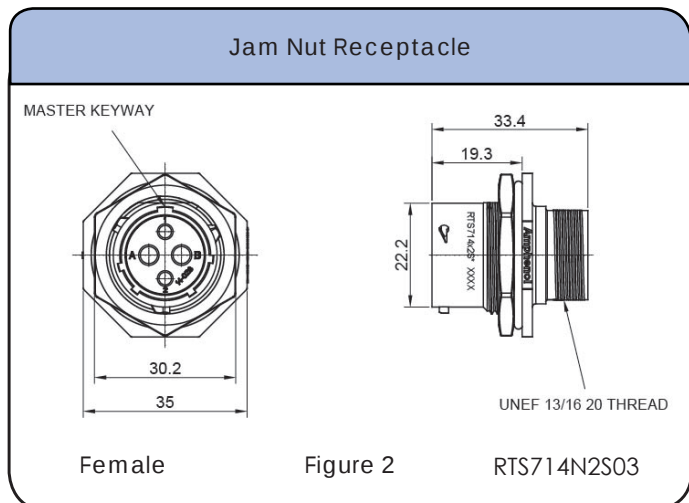
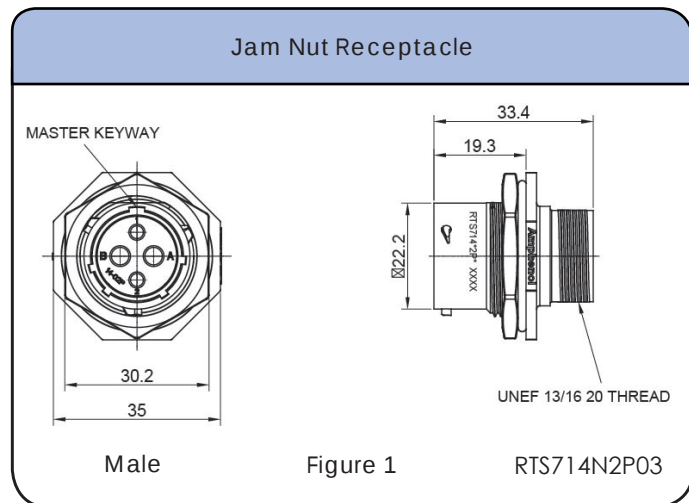
PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS14N2P03	Straight plug with cord grip, 2+2 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	8
RTS6BS14N2PHEC03	Straight plug with end cap, 2+2 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	10
RTS6BS14N2S03	Straight plug with cord grip, 2+2 positions, size 14, socket contact, silicone rubber seal	-40 to 125°C	9
RTS6BS14N2SHEC03	Straight plug with end cap, 2+2 positions, size 14, socket contact, silicone rubber seal	-40 to 125°C	11

Contacts supplied separately see page 96

Shell Size: 14 Number of Contacts: 4 (2+2)
 Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 2-16/2-2.5mm

Dimensions Jam Nut Receptacles

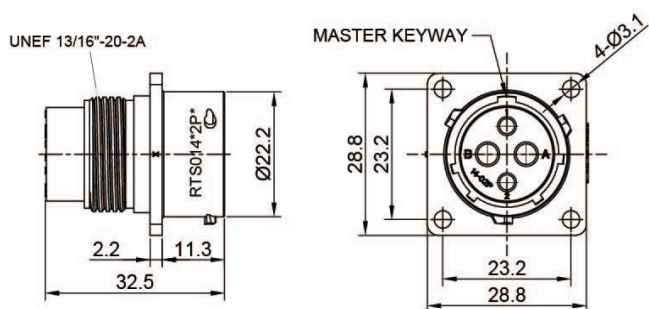


Shell Size: 14 Number of Contacts: 4 (2+2)
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 2-16/2-2.5mm

Dimensions Square Flange Receptacles

Square Flange Receptacle

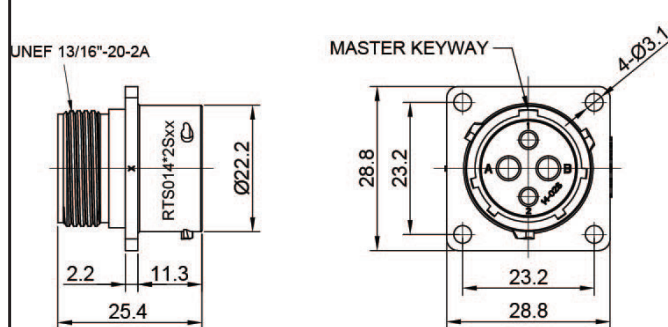


Male

Figure 4

RTS014N2P03

Square Flange Receptacle

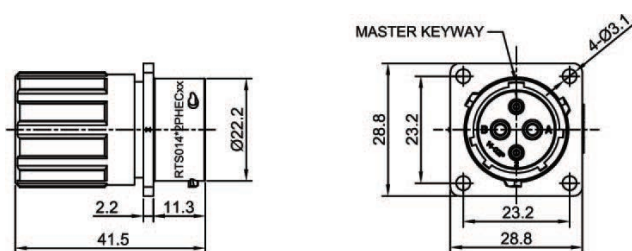


Female

Figure 5

RTS014N2S03

Square Flange Receptacle with Endcap

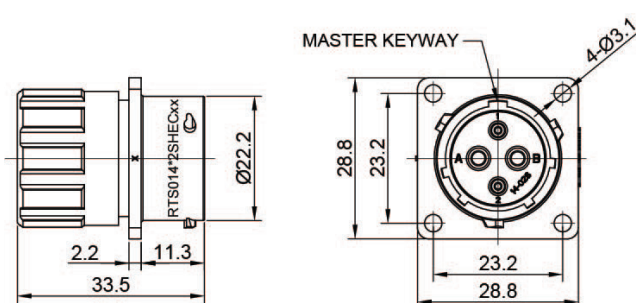


Male

Figure 6

RTS014N2PHEC03

Square Flange Receptacle with Endcap



Female

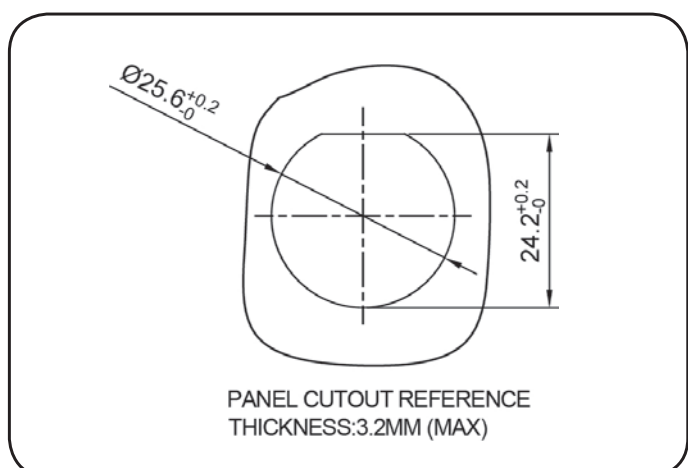
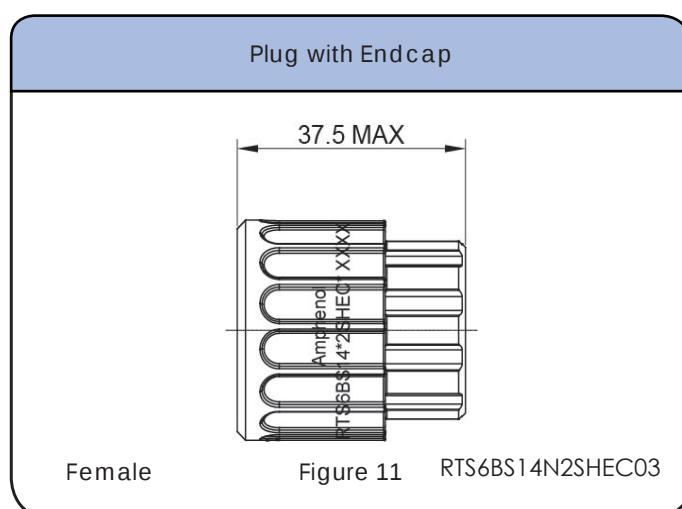
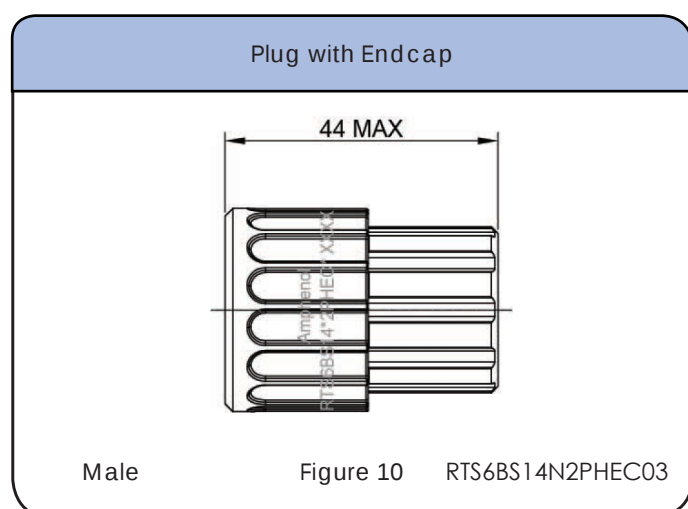
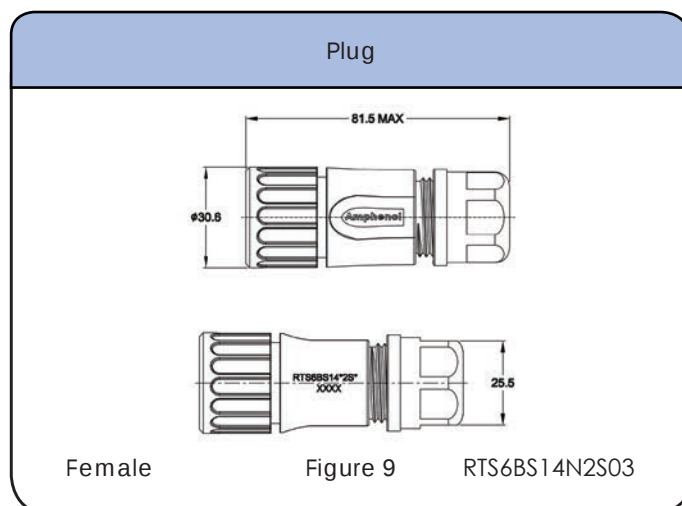
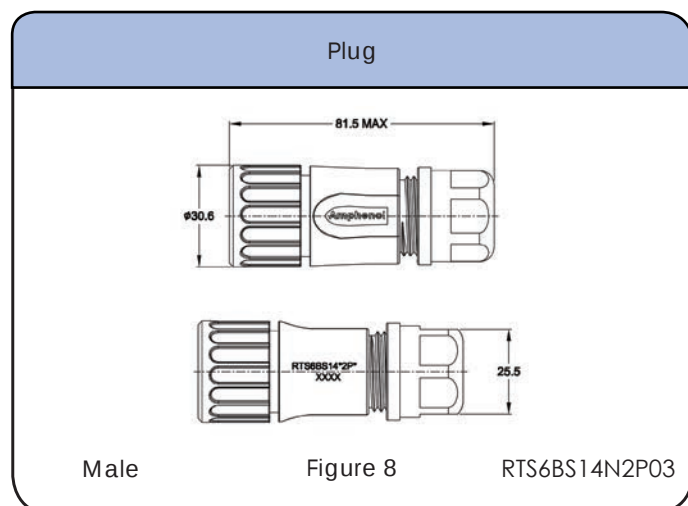
Figure 7

RTS014N2SHEC03

Shell Size: 14 Number of Contacts: 4 (2+2)
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 2-16/2-2.5mm

Dimensions / Plugs



Shell Size: 14 Number of Contacts: 4 (2+2)
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 2-16/2-2.5mm

Accessories

Dust Cap for Receptacle, Size 14



RTS014DCG

Dust Cap for Plug, Size 14



RTS614NDCG

Sealing Plug, Size 2.5mm



A114017

Sealing Plug, Size 16



A114017-SR

Coding Color Ring, Yellow, Size 14



RTS14CCRY

Coding Color Ring, Green, Size 14



RTS14CCRG

Coding Color Ring, Red, Size 14



RTS14CCRR

Shell Size: 14 Number of Contacts: 4 (2+2) Contact Size: 2-16/2-2.5mm
 Sealing: IP67 / IP69k Salt Spray: 500h

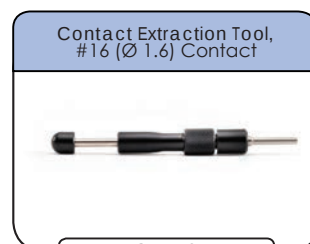
Contacts Machined



Crimp Contacts, Machined

Part Number		Contact Size	AWG	Wire Range (mm ²)	Plating
Male	Female				
MP14M23F	MS14M23F	16	14	2.0-2.5	Gold Flash
MP14M23G5	MS14M23G5	16	14	2.0-2.5	Gold 5μ"
MP14M23G10	MS14M23G10	16	14	2.0-2.5	Gold 10μ"
MP14M23G15	MS14M23G15	16	14	2.0-2.5	Gold 15μ"
MP14M23G30	MS14M23G30	16	14	2.0-2.5	Gold 30μ"
MP16M23F	MS16M23F	16	18-16	.75-1.5	Gold Flash
MP16M23G5	MS16M23G5	16	18-16	.75-1.5	Gold 5μ"
MP16M23G10	MS16M23G10	16	18-16	.75-1.5	Gold 10μ"
MP16M23G15	MS16M23G15	16	18-16	.75-1.5	Gold 15μ"
MP16M23G30	MS16M23G30	16	18-16	.75-1.5	Gold 30μ"
MP20M23F	MS20M23F	16	22-20	.34-.50	Gold Flash
MP20M23G5	MS20M23G5	16	22-20	.34-.50	Gold 5μ"
MP20M23G10	MS20M23G10	16	22-20	.34-.50	Gold 10μ"
MP20M23G15	MS20M23G15	16	22-20	.34-.50	Gold 15μ"
MP20M23G30	MS20M23G30	16	22-20	.34-.50	Gold 30μ"
MP24M23F	MS24M23F	16	26-24	.14-.25	Gold Flash
MP24M23G5	MS24M23G5	16	26-24	.14-.25	Gold 5μ"
MP24M23G10	MS24M23G10	16	26-24	.14-.25	Gold 10μ"
MP24M23G15	MS24M23G15	16	26-24	.14-.25	Gold 15μ"
MP24M23G30	MS24M23G30	16	26-24	.14-.25	Gold 30μ"

Tools



Shell Size: 14 Number of Contacts: 4 (2+2)
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 2-16/2-2.5mm

Contacts Stamped & Formed



Crimp Contacts, Stamped & Formed

Part Number		Contact Size	AWG	Wire Range (mm ²)	Plating
Male	Female				
SP12A1T	SS12A1T	2.5mm	14-12	2.5-3.5	Tin
SP14M2F	SS14M2F	16	14	2.0-2.5	Gold Flash
SP14M2G5	SS14M2G5	16	14	2.0-2.5	Gold 5μ"
SP14M2G10	SS14M2G10	16	14	2.0-2.5	Gold 10μ"
SP14M2G15	SS14M2G15	16	14	2.0-2.5	Gold 15μ"
SP14M2G30	SS14M2G30	16	14	2.0-2.5	Gold 30μ"
SP16M2F	SS16M2F	16	18-16	.75-1.5	Gold Flash
SP16M2G5	SS16M2G5	16	18-16	.75-1.5	Gold 5μ"
SP16M2G10	SS16M2G10	16	18-16	.75-1.5	Gold 10μ"
SP16M2G15	SS16M2G15	16	18-16	.75-1.5	Gold 15μ"
SP16M2G30	SS16M2G30	16	18-16	.75-1.5	Gold 30μ"
SP20M2F	SS20M2F	16	22-20	.34-.50	Gold Flash
SP20M2G5	SS20M2G5	16	22-20	.34-.50	Gold 5μ"
SP20M2G10	SS20M2G10	16	22-20	.34-.50	Gold 10μ"
SP20M2G15	SS20M2G15	16	22-20	.34-.50	Gold 15μ"
SP20M2G30	SS20M1G30	16	22-20	.34-.50	Gold 30μ"
SP24M2F	SS24M2F	16	26-24	.14-.25	Gold Flash
SP24M2G5	SS24M2G5	16	26-24	.14-.25	Gold 5μ"
SP24M2G10	SS24M2G10	16	26-24	.14-.25	Gold 10μ"
SP24M2G15	SS24M2G15	16	26-24	.14-.25	Gold 15μ"
SP24M2G30	SS24M2G30	16	26-24	.14-.25	Gold 30μ"

Tools

Extraction Tool 2.5mm Contact



QXRT12S

Contact Extraction Tool, #16 (Ø 1.6) Contact



QXRT16

Hand Tool, Stamped & Formed Contact, 2.5 mm



MFx-3962

Hand Tool, Stamped & Formed Contact, Size16, 20-14AWG



MFx-3954

Crimp Die for Stamped & Formed Contact



MFx-3957

STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



RTS710N6P03



RTS710N6S03



RTS710N6PHEC03

Square Flange Receptacles



RTS010N6P03



RTS010N6S03



RTS010N6PHEC03



RTS010N6SHEC03

Plug



RTS6BS10N6P03



RTS6BS10N6S03



RTS6BS10N6PHEC03



RTS6BS10N6SHEC03

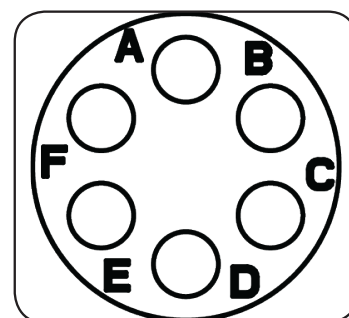
SEE TABLE ON NEXT PAGE FOR PART DETAILS

CONTACTS SOLD SEPARATELY SEE PAGE 104

Shell Size: 10 Number of Contacts: 6 Contact Size: 20
Sealing: IP67 / IP69k Salt Spray: 500h

eco|mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +125°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers - Receptacles

PART NO#	Description	Temperature Range	Figure Drawings
RTS710N6P03	Receptacle, jam nut, 6 positions, size 10, pin contact , silicone rubber seal	-40 to 125°C	1
RTS710N6S03	Receptacle, jam nut, 6 positions, size 10, socket contact , silicone rubber seal	-40 to 125°C	2
RTS710N6PHEC03	Receptacle, jam nut, 6 positions, size 10, pin contact , silicone rubber seal, with endcap	-40 to 125°C	3
RTS010N6P03	Receptacle, square flange, 6 positions, size 10, pin contact, silicone rubber seal	-40 to 125°C	4
RTS010N6PHEC03	Receptacle, square flange, 6 positions, size 10, pin contact, silicone rubber seal, endcap	-40 to 125°C	6
RTS010N6S03	Receptacle, square flange, 6 positions, size 10, socket contact, silicone rubber seal	-40 to 125°C	5
RTS010N6SHEC03	Receptacle, square flange, 6 positions, size 10, socket contact, silicone rubber seal, endcap	-40 to 125°C	7

Connector Part Numbers - Plugs

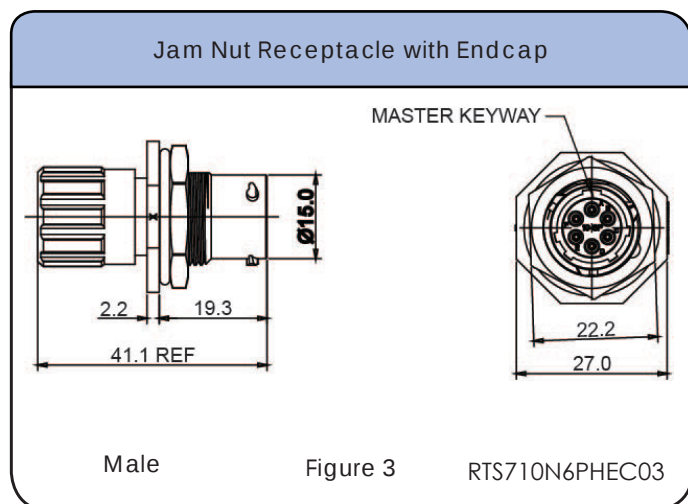
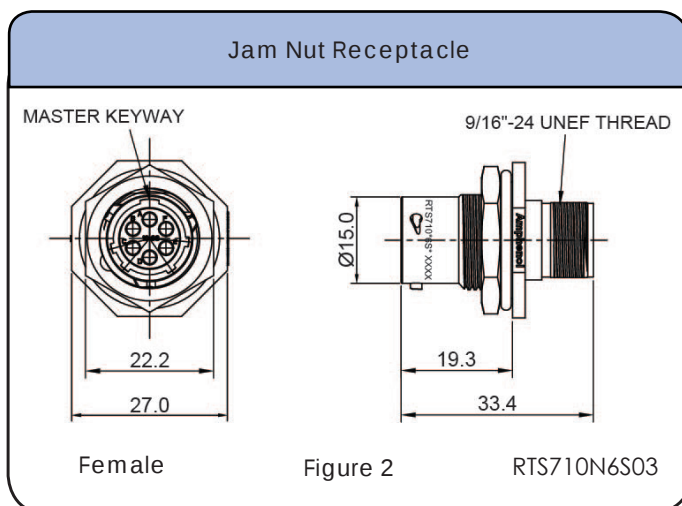
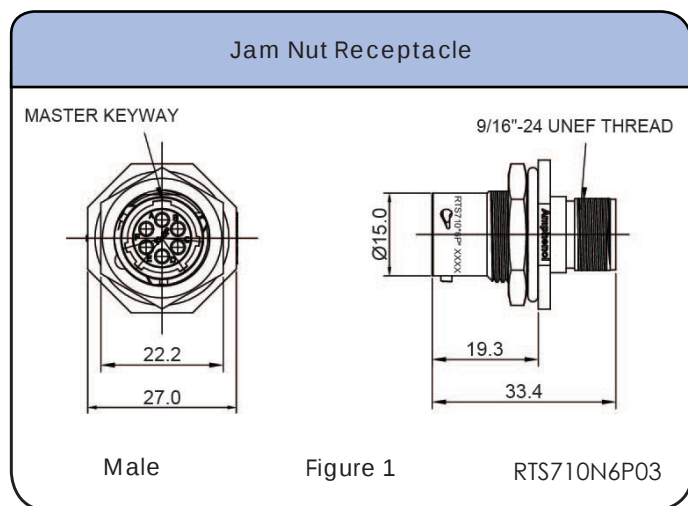
PART NO#	Description	Temperature Range	Figure Drawings
RTS6BS10N6P03	Straight plug with cord grip, 6 positions, size 10, pin contact , silicone rubber seal	-40 to 125°C	8
RTS6BS10N6PHEC03	Straight plug with endcap, 6 positions, size 10, pin contact , silicone rubber seal	-40 to 125°C	10
RTS6BS10N6S03	Straight plug with cord grip, 6 positions, size 10, socket contact , silicone rubber seal	-40 to 125°C	9
RTS6BS10N6SHEC03	Straight plug with endcap, 6 positions, size 10, socket contact , silicone rubber seal	-40 to 125°C	11

Contacts supplied separately see page 104

Shell Size: 10 Number of Contacts: 6
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 20

Dimensions Jam Nut

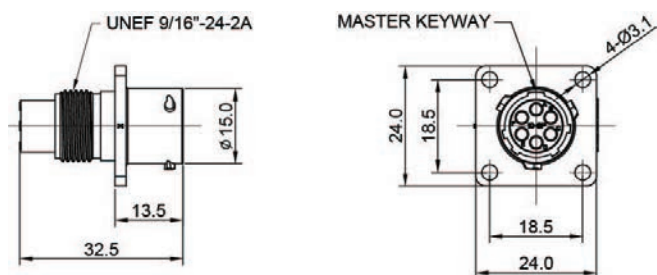


Shell Size: 10 Number of Contacts: 6 Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 20

Dimensions Square Flange Receptacles

Square Flange Receptacle

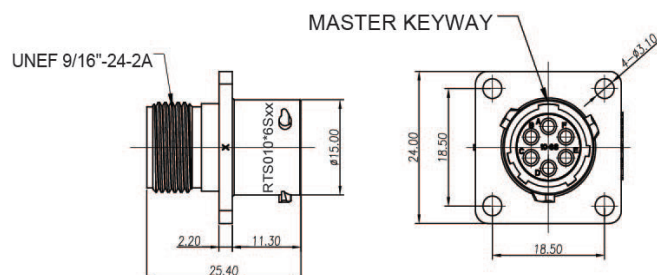


Male

Figure 4

RTS010N6P03

Square Flange Receptacle

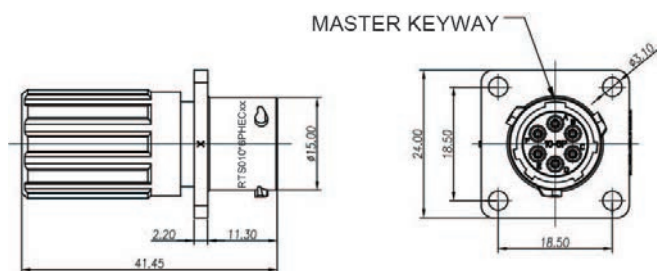


Female

Figure 5

RTS010N6S03

Square Flange Receptacle with Endcap

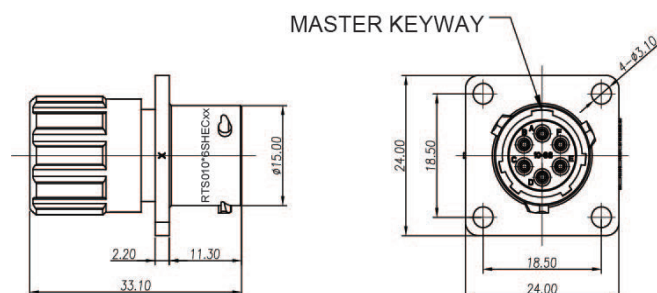


Male

Figure 6

RTS010N6PHEC03

Square Flange Receptacle with Endcap



Female

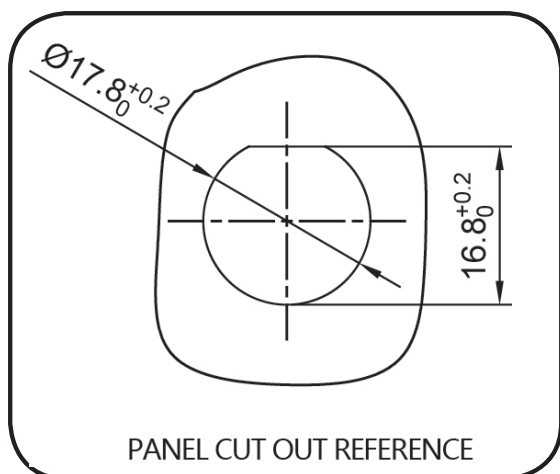
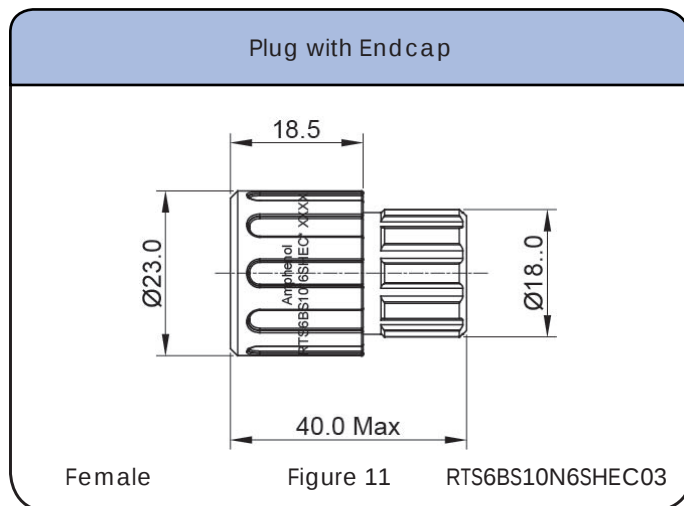
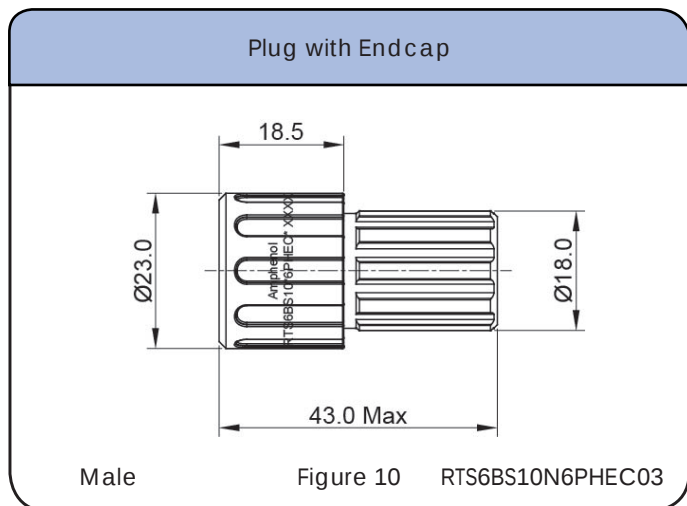
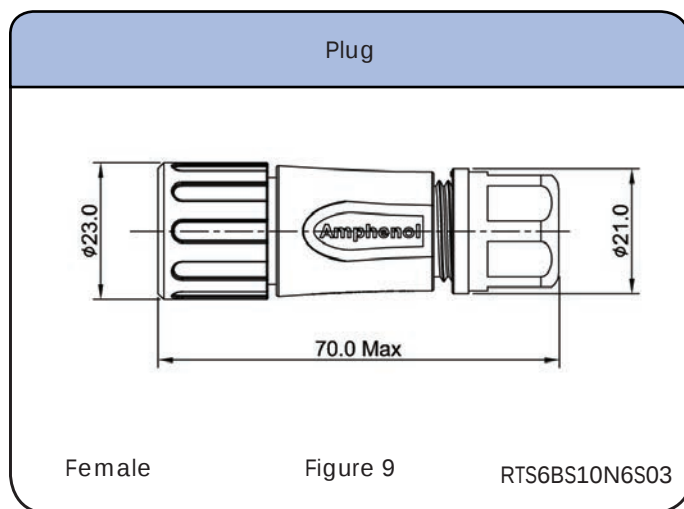
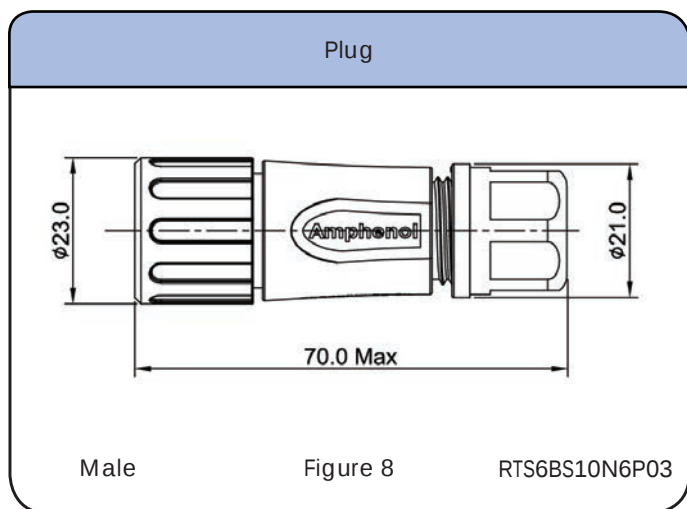
Figure 7

RTS010N6SHEC03

Shell Size: 10 Number of Contacts: 6
Sealing: IP67 / IP69k Salt Spray: 500h

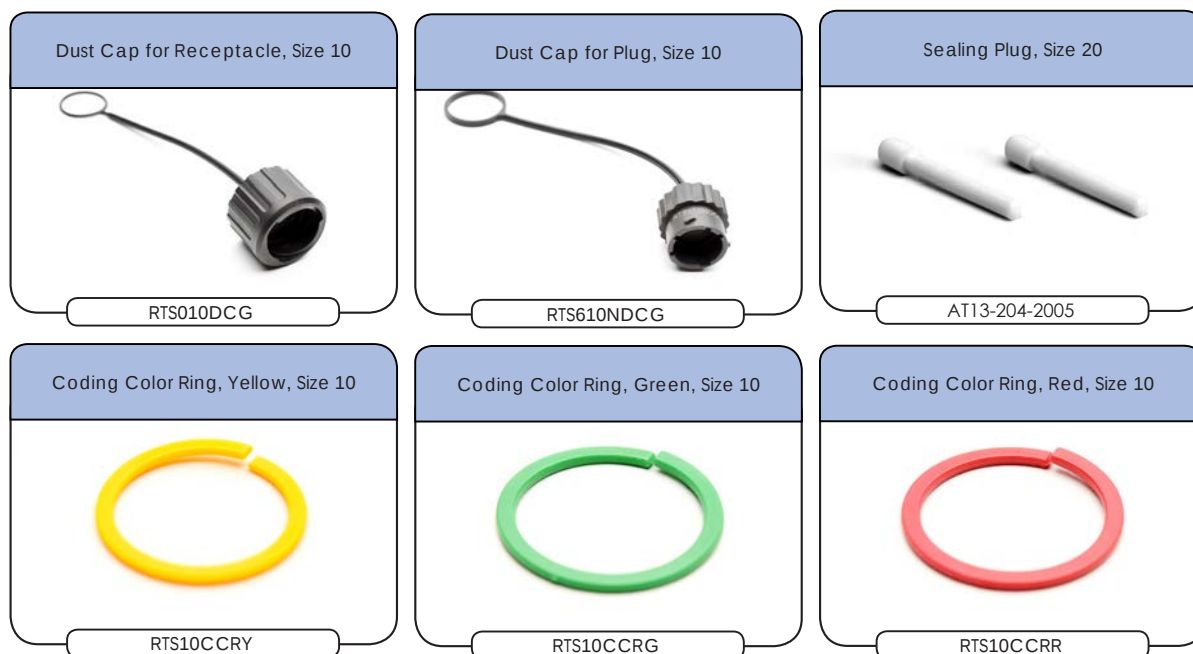
Contact Size: 20

Dimensions Plugs



Shell Size: 10 Number of Contacts: 6 Contact Size: 20
Sealing: IP67 / IP69k Salt Spray: 500h

Accessories



Shell Size: 10 Number of Contacts: 6 Contact Size: 20
 Sealing: IP67 / IP69k Salt Spray: 500h

Contacts Machined



Crimp Contacts, Machined

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
MP20W23F	MS20W23F	22-20	.34-.50	Gold Flash
MP20W23G5	MS20W23G5	22-20	.34-.50	Gold 5μ"
MP20W23G10	MS20W23G10	22-20	.34-.50	Gold 10μ"
MP20W23G15	MS20W23G15	22-20	.34-.50	Gold 15μ"
MP20W23G30	MS20W23G30	22-20	.34-.50	Gold 30μ"
MP24W23F	MS24W23F	26-24	.13-.25	Gold Flash
MP24W23G5	MS24W23G5	26-24	.13-.25	Gold 5μ"
MP24W23G10	MS24W23G10	26-24	.13-.25	Gold 10μ"
MP24W23G15	MS24W23G15	26-24	.13-.25	Gold 15μ"
MP24W23G30	MS24W23G30	26-24	.13-.25	Gold 30μ"
MP28W23F	MS28W23F	30-28	.05-.08	Gold Flash
MP28W23G5	MS28W23G5	30-28	.05-.08	Gold 5μ"
MP28W23G10	MS28W23G10	30-28	.05-.08	Gold 10μ"
MP28W23G15	MS28W23G15	30-28	.05-.08	Gold 15μ"
MP28W23G30	MS28W23G30	30-28	.05-.08	Gold 30μ"

Tools

Contact Extraction Tool,
#20 (Ø 1.6) Contact



QXRT20

Hand Crimp Tool for
Machined Contacts



MF3-3959

Pneumatic Crimp Tool for
Machined Contact



MF3-3960

Shell Size: 10 Number of Contacts: 6 Contact Size: 20
Sealing: IP67 / IP69k Salt Spray: 500h

Contacts Stamped & Formed



Crimp Contacts, Stamped & Formed

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
SP20W2F	SS20W2F	22-20	.34-.50	Gold Flash
SP20W2G5	SS20W2G5	22-20	.34-.50	Gold 5μ"
SP20W2G10	SS20W2G10	22-20	.34-.50	Gold 10μ"
SP20W2G15	SS20W2G15	22-20	.34-.50	Gold 15μ"
SP20W2G30	SS20W2G30	22-20	.34-.50	Gold 30μ"
SP24W2F	SS24W2F	26-24	.14-.25	Gold Flash
SP24W2G5	SS24W2G5	26-24	.14-.25	Gold 5μ"
SP24W2G10	SS24W2G10	26-24	.14-.25	Gold 10μ"
SP24W2G15	SS24W2G15	26-24	.14-.25	Gold 15μ"
SP24W2G30	SS24W2G30	26-24	.14-.25	Gold 30μ"
SP28W2F	SS28W2F	30-28	.05-.08	Gold Flash
SP28W2G5	SS28W2G5	30-28	.05-.08	Gold 5μ"
SP28W2G10	SS28W2G10	30-28	.05-.08	Gold 10μ"
SP28W2G15	SS28W2G15	30-28	.05-.08	Gold 15μ"
SP28W2G30	SS28W2G30	30-28	.05-.08	Gold 30μ"

Tools



STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



RTS714N7P03



RTS714N7S03

Square Flange Receptacles



RTS014N7P03



RTS014N7S03

Plug



RTS6BS14N7P03



RTS6BS14N7S03

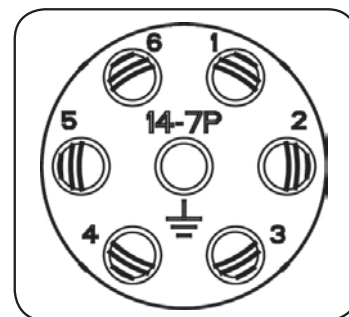
SEE TABLE ON NEXT PAGE FOR PART DETAILS

CONTACTS SOLD SEPARATELY SEE PAGE 110

Shell Size: 14 Number of Contacts: 7 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

eco|mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +125°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers - Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS714N7P03	Receptacle, jam nut, 7 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	1
RTS714N7S03	Receptacle, jam nut, 7 positions, size 14, socket contact, silicone rubber seal	-40 to 125°C	2
RTS014N7P03	Receptacle, square flange, 7 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	3
RTS014N7S03	Receptacle, square flange, 7 positions, size 14, socket contact, silicone rubber seal	-40 to 125°C	4

Connector Part Numbers - Plugs

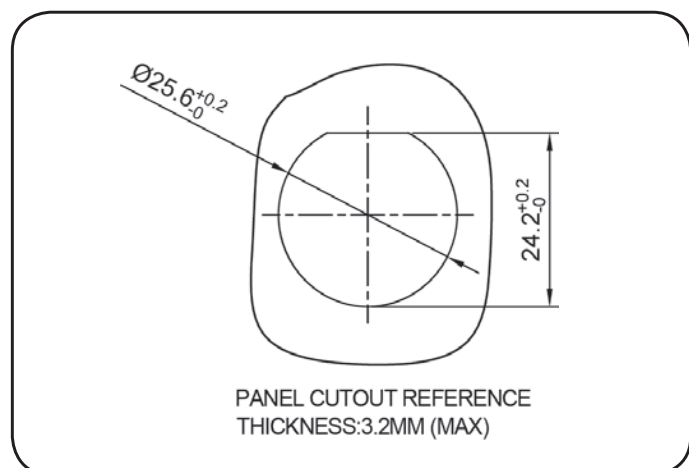
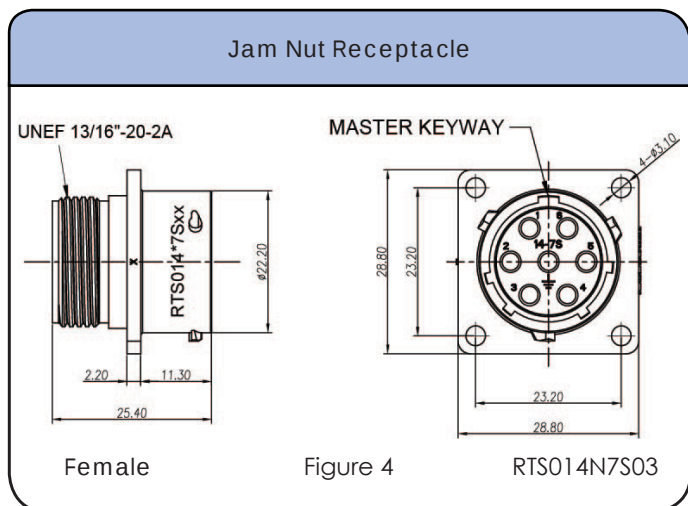
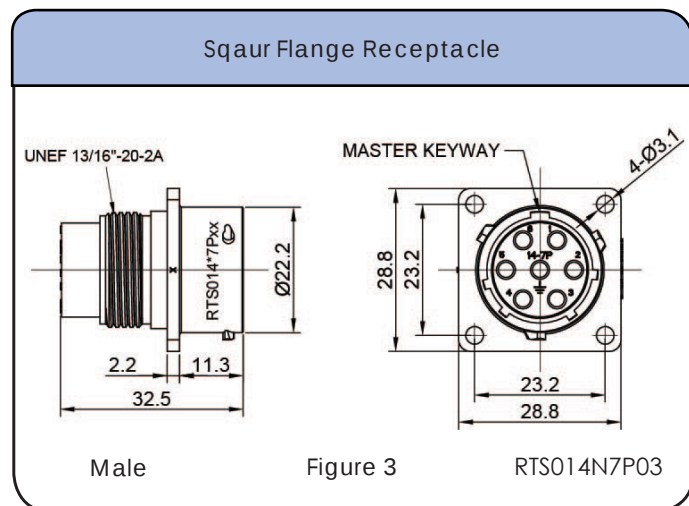
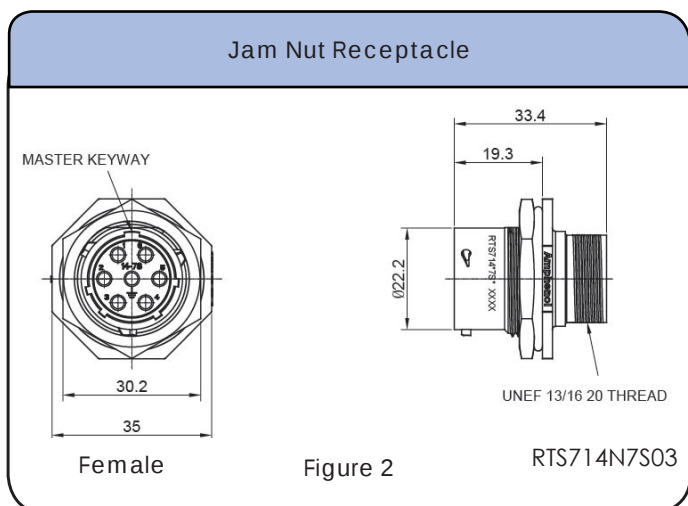
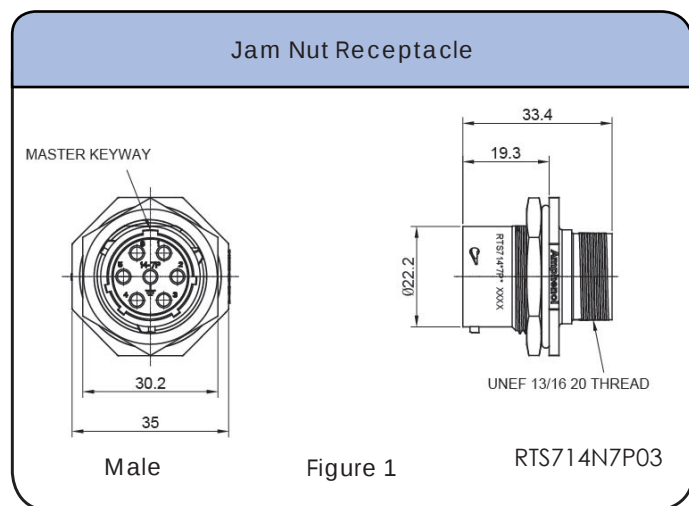
PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS14N7P03	Straight plug with cord grip, 7 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	5
RTS6BS14N7S03	Straight plug with cord grip, 7 positions, size 14, socket contact, silicone rubber seal	-40 to 125°C	6

Contacts supplied separately see page 110

Shell Size: 14 Number of Contacts: 7 Sealing: IP67 / IP69k Salt Spray: 500h

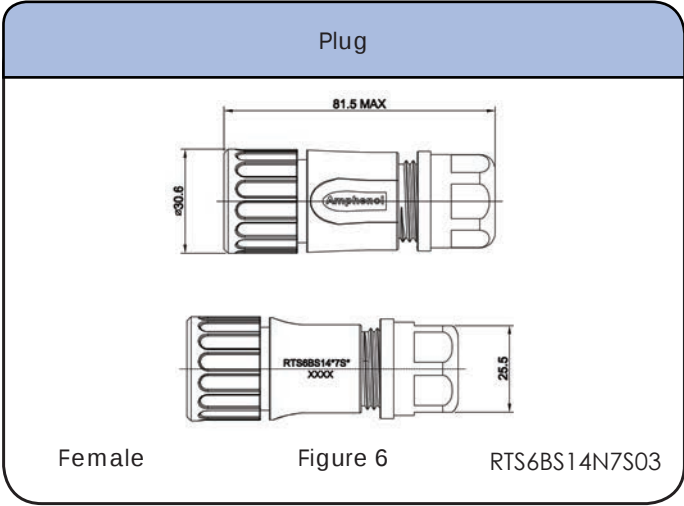
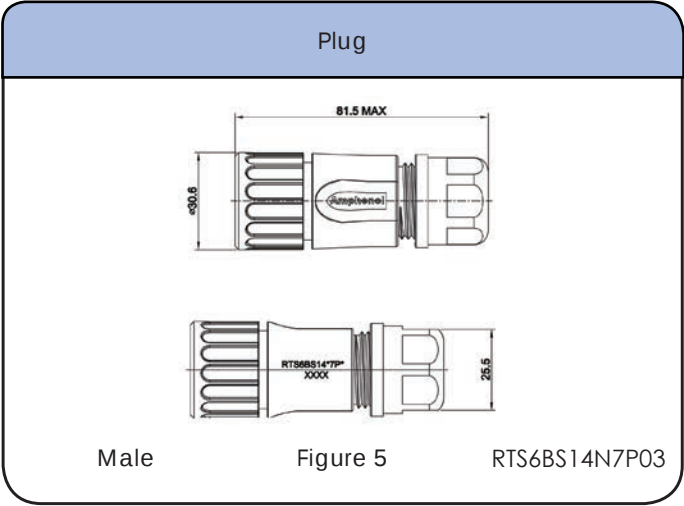
Contact Size: 16

Dimensions Jam Nut and Square Flange Receptacles

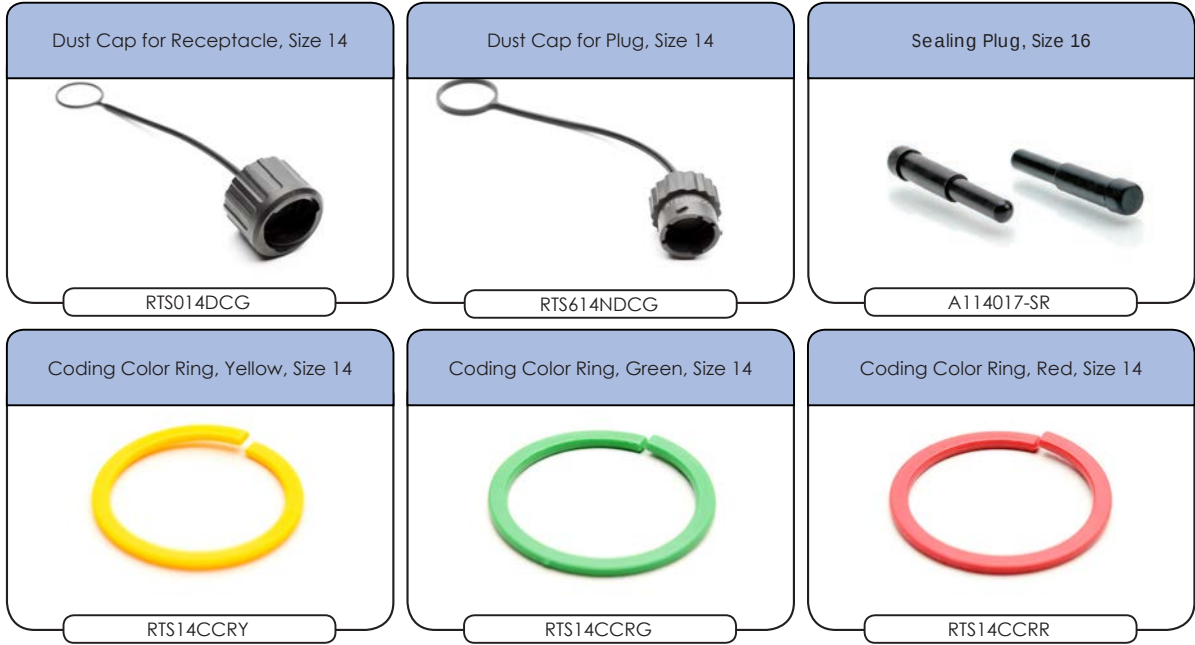


Shell Size: 14 Number of Contacts: 7 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

Dimensions Plugs



Accessories



Shell Size: 14 **Number of Contacts: 7** **Contact Size: 16**
Sealing: IP67 / IP69k **Salt Spray: 500h**

Contacts



Crimp Contacts, Machined

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
MP14M23F	MS14M23F	14	2.0-2.5	Gold Flash
MP14M23G5	MS14M23G5	14	2.0-2.5	Gold 5μ"
MP14M23G10	MS14M23G10	14	2.0-2.5	Gold 10μ"
MP14M23G15	MS14M23G15	14	2.0-2.5	Gold 15μ"
MP14M23G30	MS14M23G30	14	2.0-2.5	Gold 30μ"
MP16M23F	MS16M23F	18-16	.75-1.5	Gold Flash
MP16M23G5	MS16M23G5	18-16	.75-1.5	Gold 5μ"
MP16M23G10	MS16M23G10	18-16	.75-1.5	Gold 10μ"
MP16M23G15	MS16M23G15	18-16	.75-1.5	Gold 15μ"
MP16M23G30	MS16M23G30	18-16	.75-1.5	Gold 30μ"
MP20M23F	MS20M23F	22-20	.34-.50	Gold Flash
MP20M23G5	MS20M23G5	22-20	.34-.50	Gold 5μ"
MP20M23G10	MS20M23G10	22-20	.34-.50	Gold 10μ"
MP20M23G15	MS20M23G15	22-20	.34-.50	Gold 15μ"
MP20M23G30	MS20M23G30	22-20	.34-.50	Gold 30μ"
MP24M23F	MS24M23F	26-24	.14-.25	Gold Flash
MP24M23G5	MS24M23G5	26-24	.14-.25	Gold 5μ"
MP24M23G10	MS24M23G10	26-24	.14-.25	Gold 10μ"
MP24M23G15	MS24M23G15	26-24	.14-.25	Gold 15μ"
MP24M23G30	MS24M23G30	26-24	.14-.25	Gold 30μ"

Tools

Contact Extraction Tool,
#16 (Ø 1.6) Contact



QXRT16

Hand Crimp Tool for
Machined Contacts



MFX3959

Pneumatic Crimp Tool for
Machined Contacts



MFX3960

Shell Size: 14 Number of Contacts: 7 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

Contacts (con't)



Stamped & Formed Contacts

Crimp Contacts, Stamped & Formed

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
SP14M2F	SS14M2F	14	2.0-2.5	Gold Flash
SP14M2G5	SS14M2G5	14	2.0-2.5	Gold 5μ"
SP14M2G10	SS14M2G10	14	2.0-2.5	Gold 10μ"
SP14M2G15	SS14M2G15	14	2.0-2.5	Gold 15μ"
SP14M2G30	SS14M2G30	14	2.0-2.5	Gold 30μ"
SP16M2F	SS16M2F	18-16	.75-1.5	Gold Flash
SP16M2G5	SS16M2G5	18-16	.75-1.5	Gold 5μ"
SP16M2G10	SS16M2G10	18-16	.75-1.5	Gold 10μ"
SP16M2G15	SS16M2G15	18-16	.75-1.5	Gold 15μ"
SP16M2G30	SS16M2G30	18-16	.75-1.5	Gold 30μ"
SP20M2F	SS20M2F	22-20	.34-.50	Gold Flash
SP20M2G5	SS20M2G5	22-20	.34-.50	Gold 5μ"
SP20M2G10	SS20M2G10	22-20	.34-.50	Gold 10μ"
SP20M2G15	SS20M2G15	22-20	.34-.50	Gold 15μ"
SP20M2G30	SS20M1G30	22-20	.34-.50	Gold 30μ"
SP24M2F	SS24M2F	26-24	.14-.25	Gold Flash
SP24M2G5	SS24M2G5	26-24	.14-.25	Gold 5μ"
SP24M2G10	SS24M2G10	26-24	.14-.25	Gold 10μ"
SP24M2G15	SS24M2G15	26-24	.14-.25	Gold 15μ"
SP24M2G30	SS24M2G30	26-24	.14-.25	Gold 30μ"

Tools

Contact Extraction Tool,
#16 (Ø 1.6) Contact



QXRT16

Hand Tool, Stamped & Formed
Contact, Size 16 20-14AWG



MFX-3954

Crimp Die for Stamped &
Formed Contact



MFX-3957

STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



RTS712N8P03



RTS712N8S03



RTS712N8PHEC03

Square Flange Receptacles



RTS012N8P03



RTS012N8S03



RTS012N8PHEC03



RTS012N8SHEC03

Plugs



RTS6BS12N8P03



RTS6BS12N8S03



RTS6BS12N8PHEC03



RTS6BS12N8SHEC03

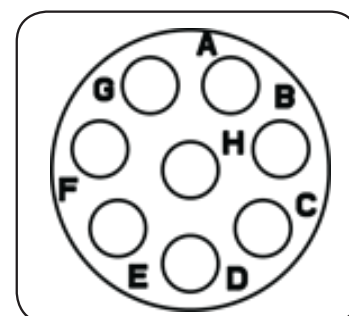
SEE TABLE ON NEXT PAGE FOR PART DETAILS

CONTACTS SOLD SEPARATELY SEE PAGE 118

Shell Size: 12 Number of Contacts: 8 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

eco|mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +125°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers -Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS712N8P03	Receptacle, jam nut, 8 positions, size 12, pin contact, silicone rubber seal	-40 to 125°C	1
RTS712N8PHEC03	Receptacle, jam nut, 8 positions, size 12, pin contact, silicone rubber seal, endcap	-40 to 125°C	3
RTS712N8S03	Receptacle, jam nut, 8 positions, size 12, socket contact, silicone rubber seal	-40 to 125°C	2
RTS012N8P03	Receptacle, square flange, 8 positions, size 12, pin contact, silicone rubber seal	-40 to 125°C	4
RTS012N8PHEC03	Receptacle, square flange, 8 positions, size 12, pin contact, silicone rubber seal, endcap	-40 to 125°C	6
RTS012N8S03	Receptacle, square flange, 8 positions, size 12, socket contact, silicone rubber seal	-40 to 125°C	5
RTS012N8SHEC03	Receptacle, square flange, 8 positions, size 12, socket contact, silicone rubber seal, endcap	-40 to 125°C	7

Connector Part Numbers -Plugs

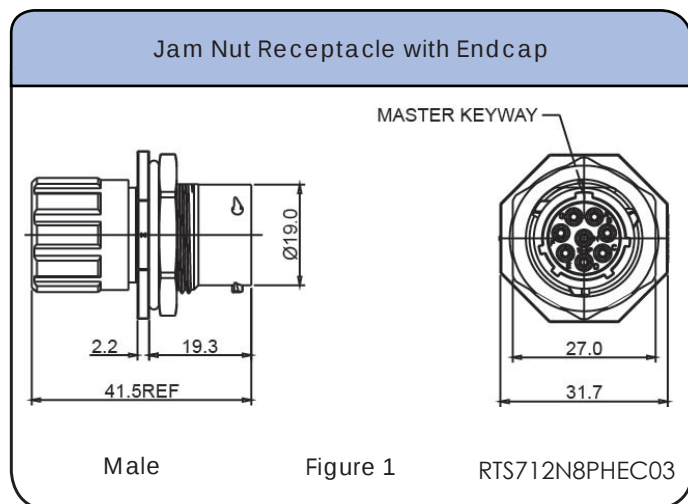
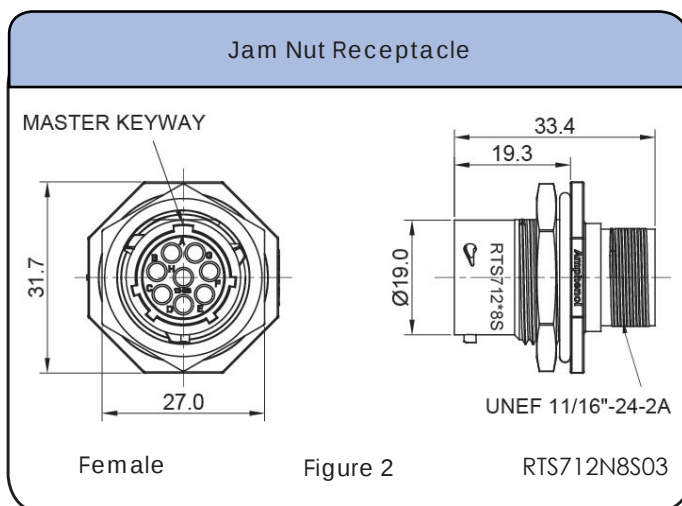
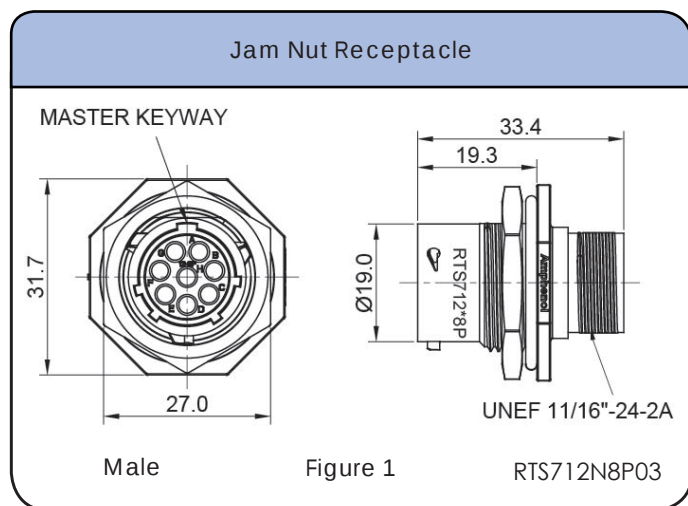
PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS12N8P03	Straight plug with cord grip, 8 positions, size 12, pin contact, silicone rubber seal	-40 to 125°C	8
RTS6BS12N8PHEC03	Straight plug with end cap, 8 positions, size 12, pin contact, silicone rubber seal	-40 to 125°C	10
RTS6BS12N8S03	Straight plug with cord grip, 8 positions, size 12, socket contact, silicone rubber seal	-40 to 125°C	9
RTS6BS12N8SHEC03	Straight plug with end cap, 8 positions, size 12, socket contact, silicone rubber seal	-40 to 125°C	11

Contacts supplied separately see page 118

Shell Size: 12 Number of Contacts: 8
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 16

Dimensions Jam Nut Receptacles

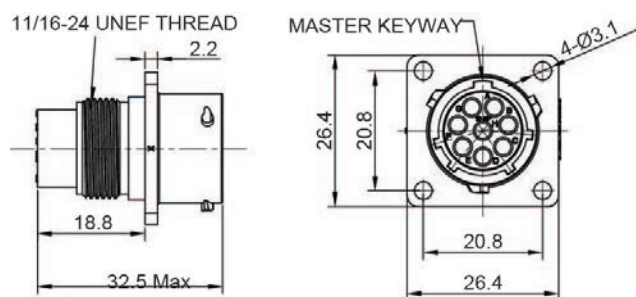


Shell Size: 12 Number of Contacts: 8
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 16

Dimensions Square Flange Receptacles

Square Flange Receptacle

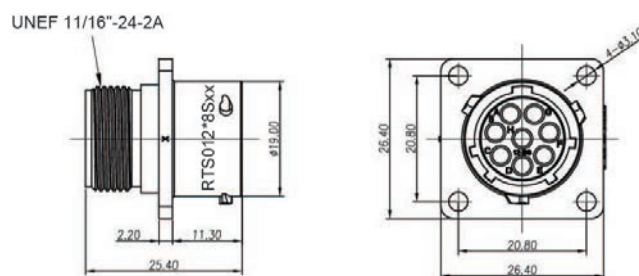


Male

Figure 3

RTS012N8P03

Square Flange Receptacle

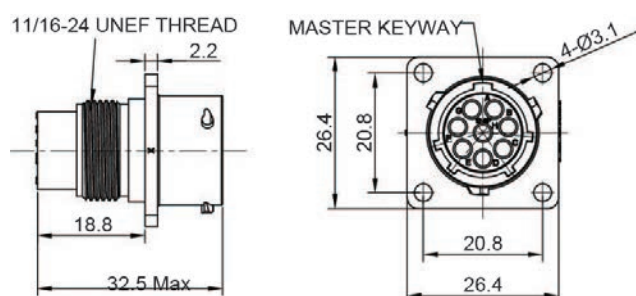


Female

Figure 4

RTS012N8S03

Square Flange Receptacle with Endcap

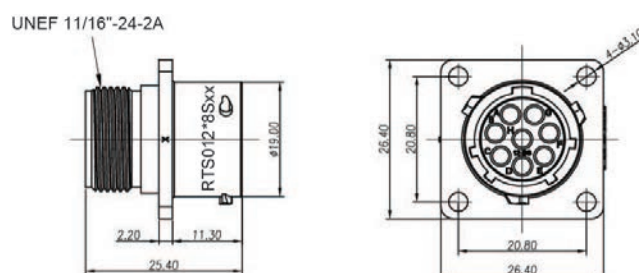


Male

Figure 3

RTS012N8PHEC03

Square Flange Receptacle with Endcap



Female

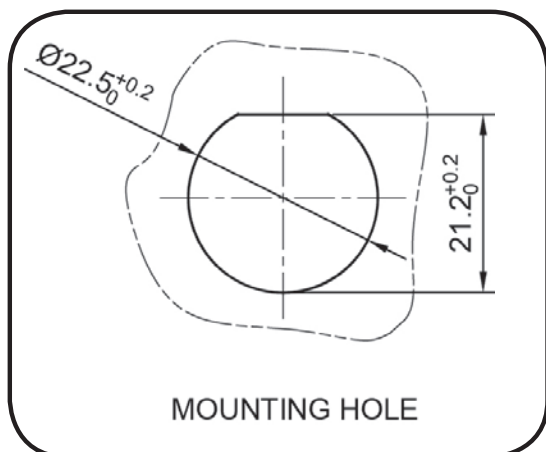
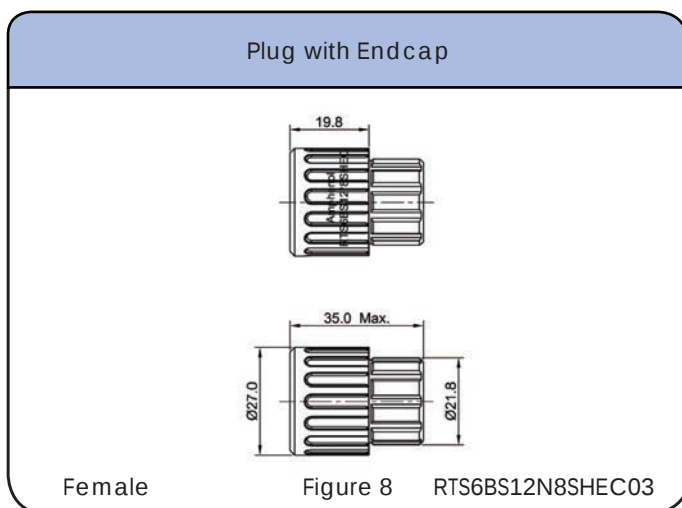
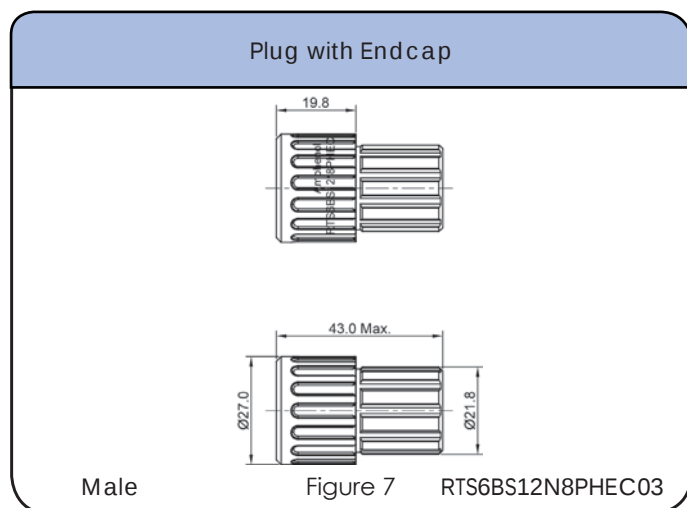
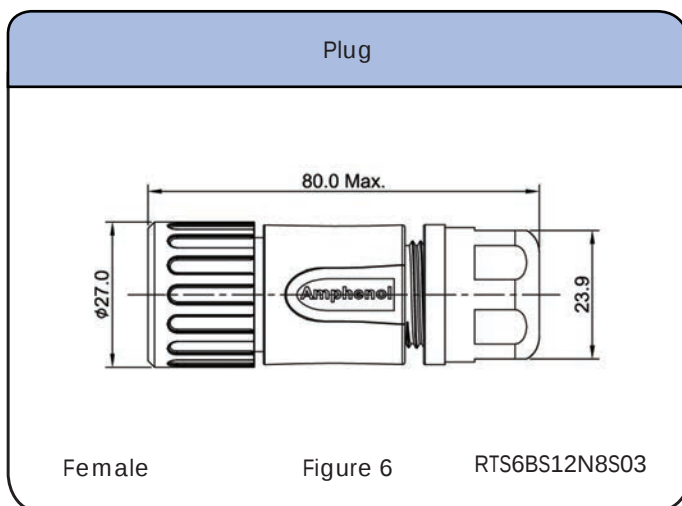
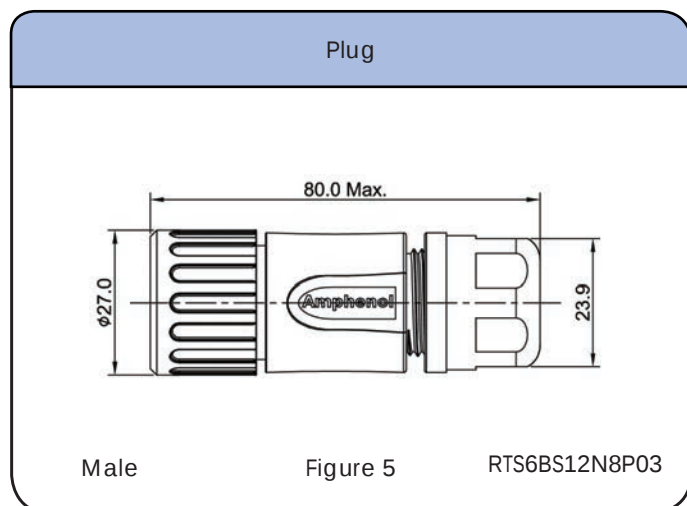
Figure 4

RTS012N8SHEC03

Shell Size: 12 Number of Contacts: 8
 Sealing: IP67 / IP69k Salt Spray: 500h

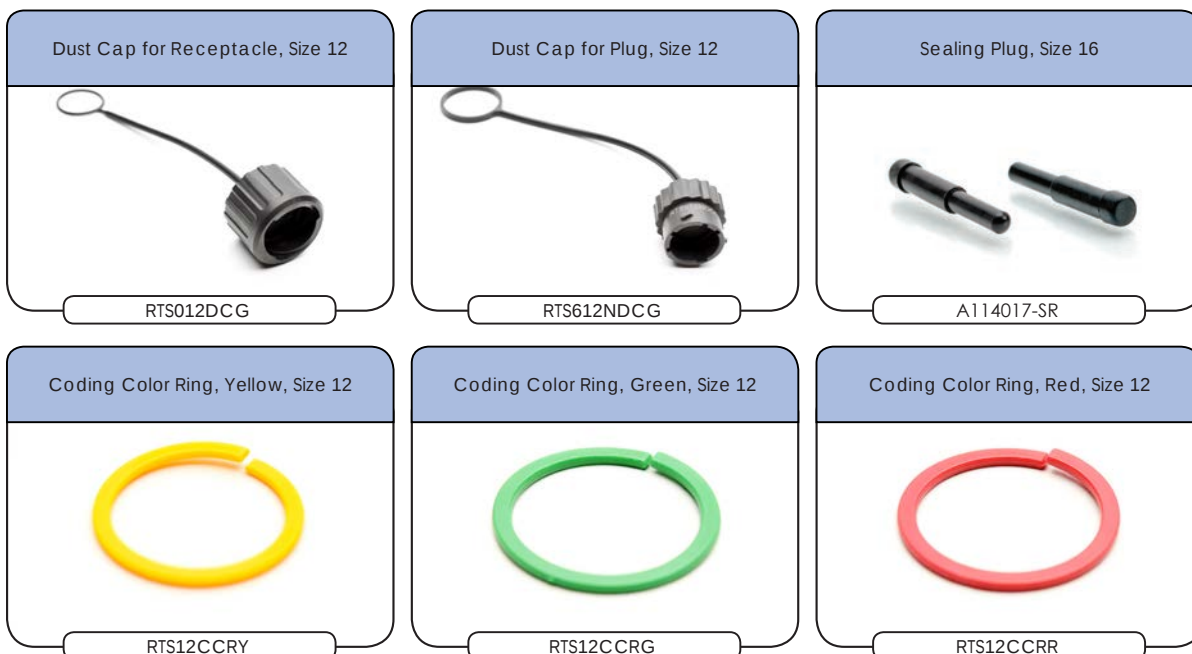
Contact Size: 16

Dimensions Plugs



Shell Size: 12 Number of Contacts: 8 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

Accessories



Shell Size: 12 Number of Contacts: 8 Contact Size: 16
 Sealing: IP67 / IP69k Salt Spray: 500h

Contacts Machined



Crimp Contacts, Machined

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
MP14M23F	MS14M23F	14	2.0-2.5	Gold Flash
MP14M23G5	MS14M23G5	14	2.0-2.5	Gold 5μ"
MP14M23G10	MS14M23G10	14	2.0-2.5	Gold 10μ"
MP14M23G15	MS14M23G15	14	2.0-2.5	Gold 15μ"
MP14M23G30	MS14M23G30	14	2.0-2.5	Gold 30μ"
MP16M23F	MS16M23F	18-16	.75-1.5	Gold Flash
MP16M23G5	MS16M23G5	18-16	.75-1.5	Gold 5μ"
MP16M23G10	MS16M23G10	18-16	.75-1.5	Gold 10μ"
MP16M23G15	MS16M23G15	18-16	.75-1.5	Gold 15μ"
MP16M23G30	MS16M23G30	18-16	.75-1.5	Gold 30μ"
MP20M23F	MS20M23F	22-20	.34-.50	Gold Flash
MP20M23G5	MS20M23G5	22-20	.34-.50	Gold 5μ"
MP20M23G10	MS20M23G10	22-20	.34-.50	Gold 10μ"
MP20M23G15	MS20M23G15	22-20	.34-.50	Gold 15μ"
MP20M23G30	MS20M23G30	22-20	.34-.50	Gold 30μ"
MP24M23F	MS24M23F	26-24	.14-.25	Gold Flash
MP24M23G5	MS24M23G5	26-24	.14-.25	Gold 5μ"
MP24M23G10	MS24M23G10	26-24	.14-.25	Gold 10μ"
MP24M23G15	MS24M23G15	26-24	.14-.25	Gold 15μ"
MP24M23G30	MS24M23G30	26-24	.14-.25	Gold 30μ"

Tools

Contact Extraction Tool,
#16 (Ø 1.6) Contact



QXRT16

Hand Crimp Tool for
Machined Contacts



MX-3959

Pneumatic Crimp Tool for
Machined Contacts



MX-3960

Shell Size: 12 Number of Contacts: 8 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

Contacts Stamped & Formed



Stamped & Formed Contacts

Crimp Contacts, Stamped & Formed

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
SP14M2F	SS14M2F	14	2.0-2.5	Gold Flash
SP14M2G5	SS14M2G5	14	2.0-2.5	Gold 5μ"
SP14M2G10	SS14M2G10	14	2.0-2.5	Gold 10μ"
SP14M2G15	SS14M2G15	14	2.0-2.5	Gold 15μ"
SP14M2G30	SS14M2G30	14	2.0-2.5	Gold 30μ"
SP16M2F	SS16M2F	18-16	.75-1.5	Gold Flash
SP16M2G5	SS16M2G5	18-16	.75-1.5	Gold 5μ"
SP16M2G10	SS16M2G10	18-16	.75-1.5	Gold 10μ"
SP16M2G15	SS16M2G15	18-16	.75-1.5	Gold 15μ"
SP16M2G30	SS16M2G30	18-16	.75-1.5	Gold 30μ"
SP20M2F	SS20M2F	22-20	.34-.50	Gold Flash
SP20M2G5	SS20M2G5	22-20	.34-.50	Gold 5μ"
SP20M2G10	SS20M2G10	22-20	.34-.50	Gold 10μ"
SP20M2G15	SS20M2G15	22-20	.34-.50	Gold 15μ"
SP20M2G30	SS20M1G30	22-20	.34-.50	Gold 30μ"
SP24M2F	SS24M2F	26-24	.14-.25	Gold Flash
SP24M2G5	SS24M2G5	26-24	.14-.25	Gold 5μ"
SP24M2G10	SS24M2G10	26-24	.14-.25	Gold 10μ"
SP24M2G15	SS24M2G15	26-24	.14-.25	Gold 15μ"
SP24M2G30	SS24M2G30	26-24	.14-.25	Gold 30μ"

Tools

Contact Extraction Tool,
#16 (Ø 1.6) Contact



QXRT16

Hand Tool, Stamped & Formed
Contact, Size 16, 20-14AWG



MFX-3954

Crimp Die for Stamped &
Formed Contact



MFX-3957

STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



RTS714N8P03



RTS714N8S03



RTS714N8PHEC03

Square Flange Receptacles



RTS014N8P03



RTS014N8S03



RTS014N8PHEC03



RTS014N8SHEC03

Plugs



RTS6BS14N8P03



RTS6BS14N8S03



RTS6BS14N8PHEC03



RTS6BS14N8SHEC03

SEE TABLE ON NEXT PAGE FOR PART DETAILS

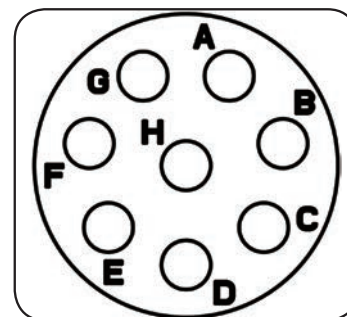
CONTACTS SOLD SEPARATELY SEE PAGE 126

Shell Size: 14 Number of Contacts: 8 Contact Size: 16

Sealing: IP67 / IP69k Salt Spray: 500h

eco | mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +125°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers -Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS714N8P03	Receptacle, jam nut, 8 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	1
RTS714N8PHEC03	Receptacle, jam nut, 8 positions, size 14, pin contact, silicone rubber seal, with endcap	-40 to 125°C	3
RTS714N8S03	Receptacle, jam nut, 8 positions, size 14, for socket contact, silicone rubber seal	-40 to 125°C	2
RTS014N8P03	Receptacle, square flange, 8 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	4
RTS014N8PHEC03	Receptacle, square flange, 8 positions, size 14, pin contact, silicone rubber seal, endcap	-40 to 125°C	6
RTS014N8S03	Receptacle, square flange, 8 positions, size 14, socket contact, silicone rubber seal	-40 to 125°C	5
RTS014N8SHEC03	Receptacle, square flange, 8 positions, size 14, socket contact, silicone rubber seal, endcap	-40 to 125°C	7

Connector Part Numbers -Plugs

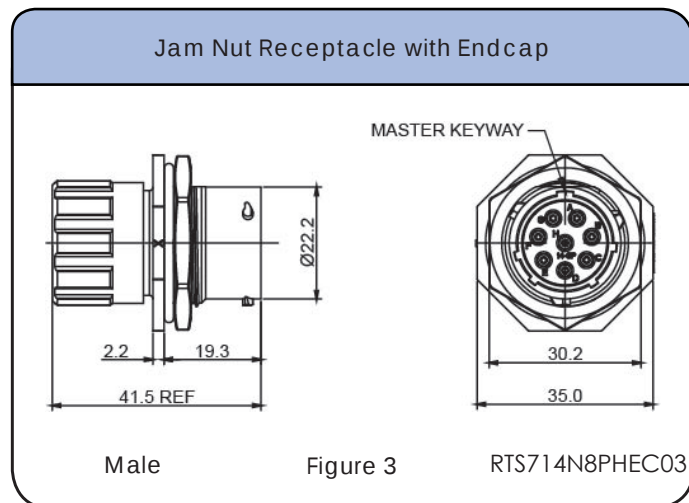
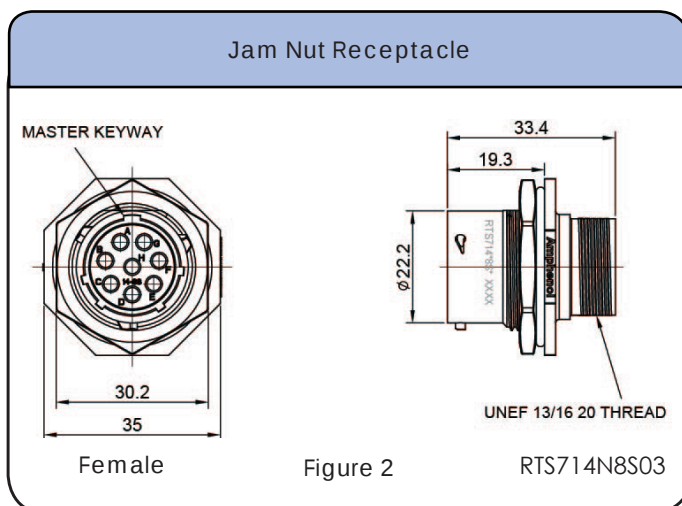
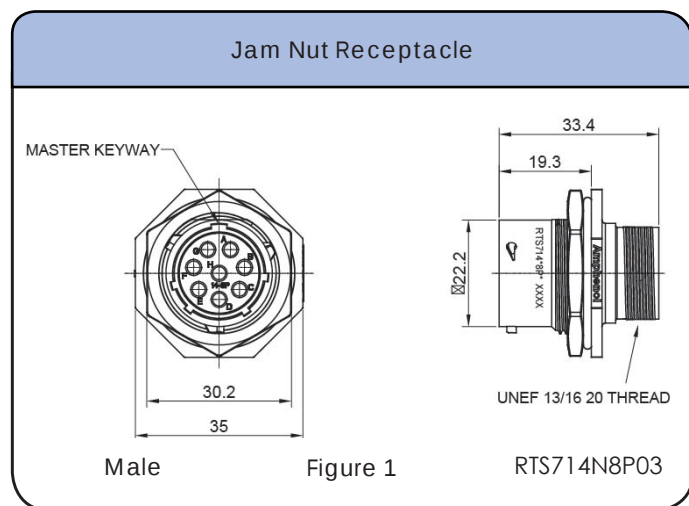
PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS14N8P03	Straight plug with cord grip, 8 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	8
RTS6BS14N8PHEC03	Straight plug with end cap, 8 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	10
RTS6BS14N8S03	Straight plug with cord grip, 8 positions, size 14, socket contact, silicone rubber seal	-40 to 125°C	9
RTS6BS14N8SHEC03	Straight plug with end cap, 8 positions, size 14, socket contact, silicone rubber seal	-40 to 125°C	11

Contacts supplied separately see page 126

Shell Size: 14 Number of Contacts: 8
 Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 16

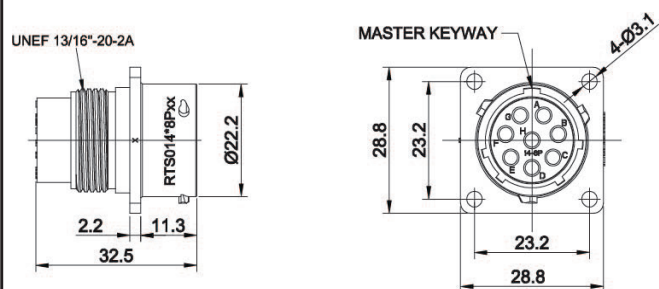
Dimensions Jam Nut Receptacles



Shell Size: 14 Number of Contacts: 8 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

Dimensions Square Flange Receptacles

Square Flange Receptacle

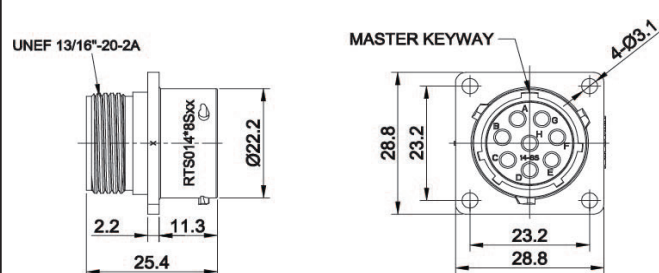


Male

Figure 4

RTS014N8P03

Square Flange Receptacle

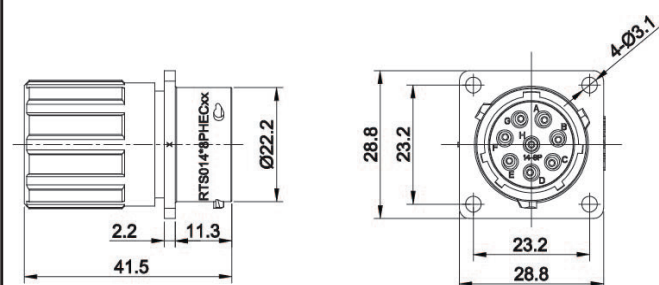


Female

Figure 5

RTS014N8S03

Square Flange Receptacle with End cap

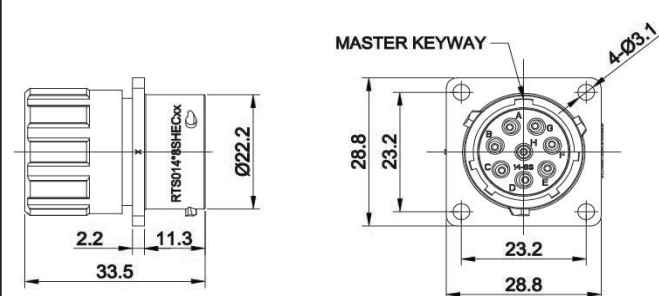


Male

Figure 6

RTS014N8PHEC03

Square Flange Receptacle with End cap



Female

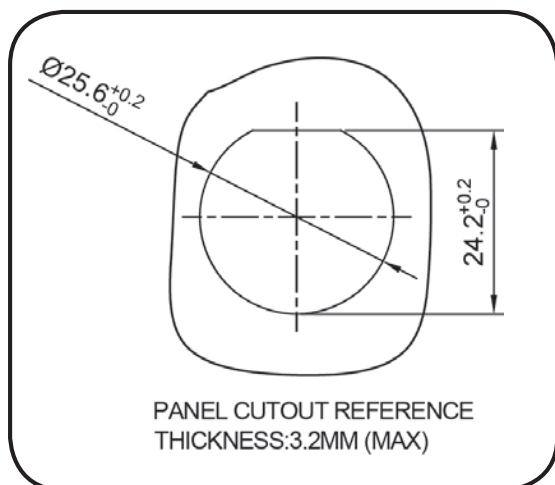
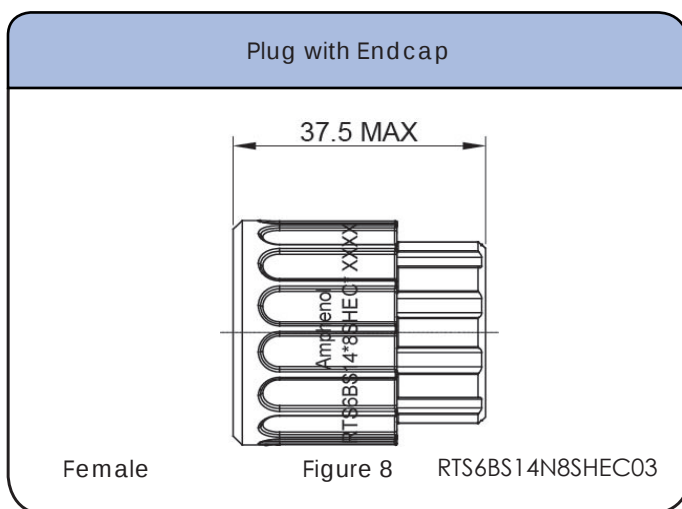
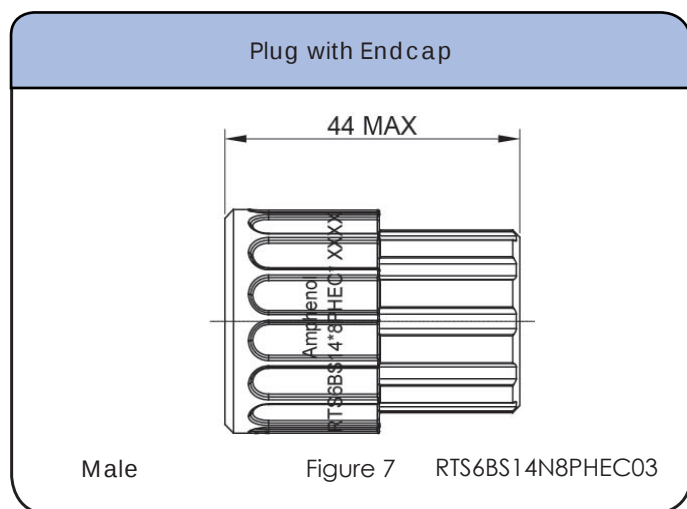
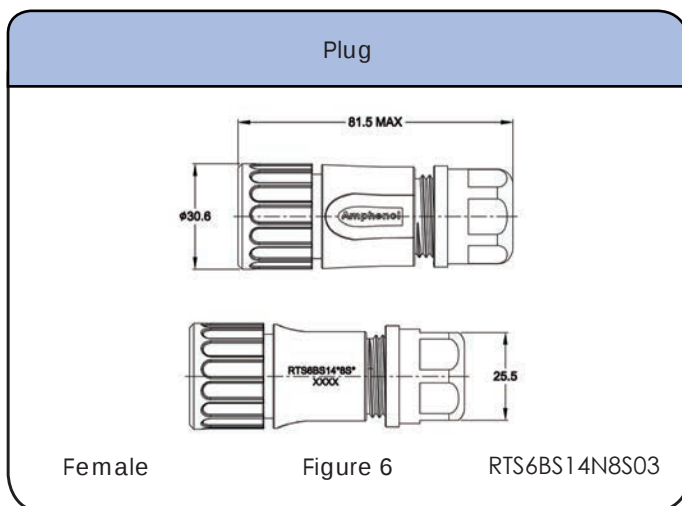
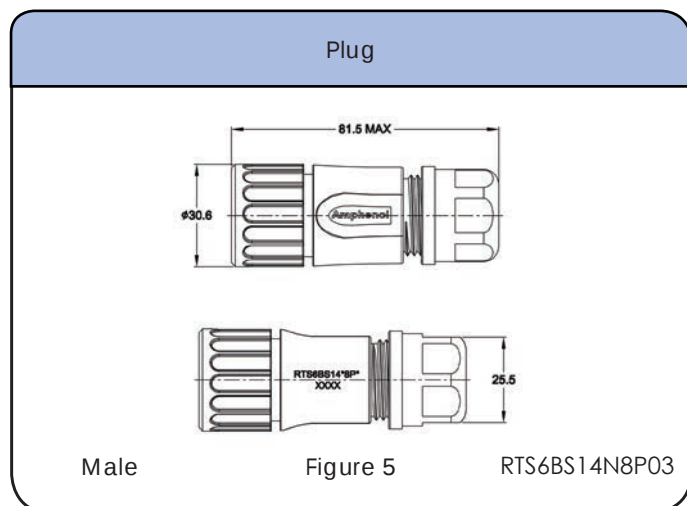
Figure 7

RTS014N8SHEC03

Shell Size: 14 Number of Contacts: 8
 Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 16

Dimensions Plug



Shell Size: 14 Number of Contacts: 8 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

Accessories

Dust Cap for Receptacle, Size 14  RTS014DCG	Dust Cap for Plug, Size 14  RTS614NDCG	Sealing Plug, Size 16  A114017-SR
Coding Color Ring, Yellow, Size 14  RTS14CCRY	Coding Color Ring, Green, Size 14  RTS14CCRG	Coding Color Ring, Red, Size 14  RTS14CCRR

Shell Size: 14 Number of Contacts: 8 Contact Size: 16
 Sealing: IP67 / IP69k Salt Spray: 500h

Contacts



Crimp Contacts, Machined

Part Number		AWG	Wire Range (mm²)	Plating
Male	Female			
MP14M23F	MS14M23F	14	2.0-2.5	Gold Flash
MP14M23G5	MS14M23G5	14	2.0-2.5	Gold 5μ"
MP14M23G10	MS14M23G10	14	2.0-2.5	Gold 10μ"
MP14M23G15	MS14M23G15	14	2.0-2.5	Gold 15μ"
MP14M23G30	MS14M23G30	14	2.0-2.5	Gold 30μ"
MP16M23F	MS16M23F	18-16	.75-1.5	Gold Flash
MP16M23G5	MS16M23G5	18-16	.75-1.5	Gold 5μ"
MP16M23G10	MS16M23G10	18-16	.75-1.5	Gold 10μ"
MP16M23G15	MS16M23G15	18-16	.75-1.5	Gold 15μ"
MP16M23G30	MS16M23G30	18-16	.75-1.5	Gold 30μ"
MP20M23F	MS20M23F	22-20	.34-.50	Gold Flash
MP20M23G5	MS20M23G5	22-20	.34-.50	Gold 5μ"
MP20M23G10	MS20M23G10	22-20	.34-.50	Gold 10μ"
MP20M23G15	MS20M23G15	22-20	.34-.50	Gold 15μ"
MP20M23G30	MS20M23G30	22-20	.34-.50	Gold 30μ"
MP24M23F	MS24M23F	26-24	.14-.25	Gold Flash
MP24M23G5	MS24M23G5	26-24	.14-.25	Gold 5μ"
MP24M23G10	MS24M23G10	26-24	.14-.25	Gold 10μ"
MP24M23G15	MS24M23G15	26-24	.14-.25	Gold 15μ"
MP24M23G30	MS24M23G30	26-24	.14-.25	Gold 30μ"

Tools



Shell Size: 14 Number of Contacts: 8 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

Contacts (con't)



Stamped & Formed Contacts

Crimp Contacts, Stamped & Formed

Part Number		AWG	Wire Range (mm²)	Plating
Male	Female			
SP14M2F	SS14M2F	14	2.0-2.5	Gold Flash
SP14M2G5	SS14M2G5	14	2.0-2.5	Gold 5µ"
SP14M2G10	SS14M2G10	14	2.0-2.5	Gold 10µ"
SP14M2G15	SS14M2G15	14	2.0-2.5	Gold 15µ"
SP14M2G30	SS14M2G30	14	2.0-2.5	Gold 30µ"
SP16M2F	SS16M2F	18-16	.75-1.5	Gold Flash
SP16M2G5	SS16M2G5	18-16	.75-1.5	Gold 5µ"
SP16M2G10	SS16M2G10	18-16	.75-1.5	Gold 10µ"
SP16M2G15	SS16M2G15	18-16	.75-1.5	Gold 15µ"
SP16M2G30	SS16M2G30	18-16	.75-1.5	Gold 30µ"
SP20M2F	SS20M2F	22-20	.34-.50	Gold Flash
SP20M2G5	SS20M2G5	22-20	.34-.50	Gold 5µ"
SP20M2G10	SS20M2G10	22-20	.34-.50	Gold 10µ"
SP20M2G15	SS20M2G15	22-20	.34-.50	Gold 15µ"
SP20M2G30	SS20M1G30	22-20	.34-.50	Gold 30µ"
SP24M2F	SS24M2F	26-24	.14-.25	Gold Flash
SP24M2G5	SS24M2G5	26-24	.14-.25	Gold 5µ"
SP24M2G10	SS24M2G10	26-24	.14-.25	Gold 10µ"
SP24M2G15	SS24M2G15	26-24	.14-.25	Gold 15µ"
SP24M2G30	SS24M2G30	26-24	.14-.25	Gold 30µ"

Tools

Contact Extraction Tool,
#16 (Ø 1.6) Contact



QXRT16

Hand Tool, Stamped & Formed
Contact, Size 16, 20-14 AWG



MFX-3954

Crimp Die for Stamped &
Formed Contact



MFX-3957

STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



RTS718N8P03



RTS718N8S03



RTS718N8PHEC03

Square Flange Receptacles



RTS018N8P03



RTS018N8S03



RTS018N8PHEC03



RTS018N8SHEC03

Plugs



RTS6BS18N8P03



RTS6BS18N8S03



RTS6BS18N8PHEC03



RTS6BS18N8SHEC03

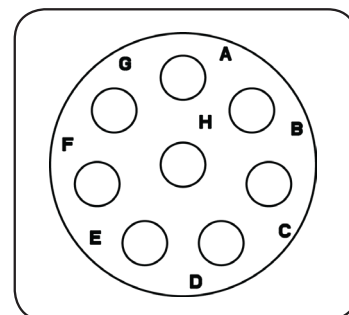
SEE TABLE ON NEXT PAGE FOR PART DETAILS

CONTACTS SOLD SEPARATELY SEE PAGE 133

Shell Size: 18 Number of Contacts: 8 Contact Size: 2.5mm
Sealing: IP67 / IP69k Salt Spray: 500h

eco|mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +125°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers - Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS718N8P03	Receptacle, jam nut, 8 positions, size 18, pin contact, silicone rubber seal	-40 to 125°C	1
RTS718N8PHEC03	Receptacle, jam nut, 8 positions, size 18, pin contact, silicone rubber seal, encap	-40 to 125°C	3
RTS718N8S03	Receptacle, jam nut, 8 positions, size 18, socket contact, silicone rubber seal	-40 to 125°C	2
RTS018N8P03	Receptacle, square flange, 8 positions, size 18, pin contact, silicone rubber seal	-40 to 125°C	4
RTS018N8PHEC03	Receptacle, square flange, 8 positions, size 18, pin contact, silicone rubber seal, endcap	-40 to 125°C	6
RTS018N8S03	Receptacle, square flange, 8 positions, size 18, socket contact, silicone rubber seal	-40 to 125°C	5
RTS018N8SHEC03	Receptacle, square flange, 8 positions, size 18, socket contact, silicone rubber seal, endcap	-40 to 125°C	7

Connector Part Numbers - Plugs

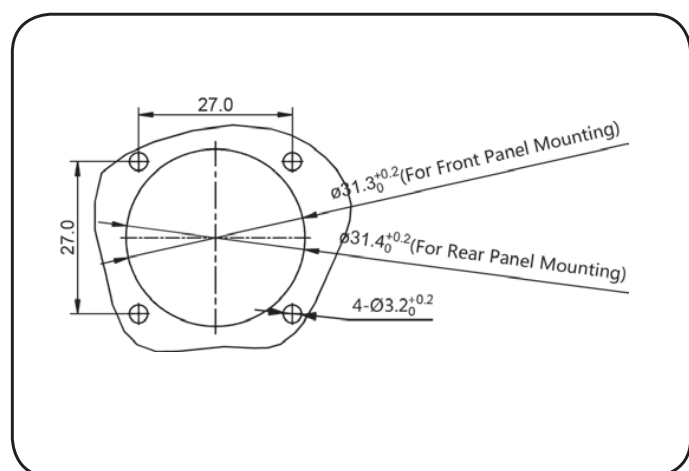
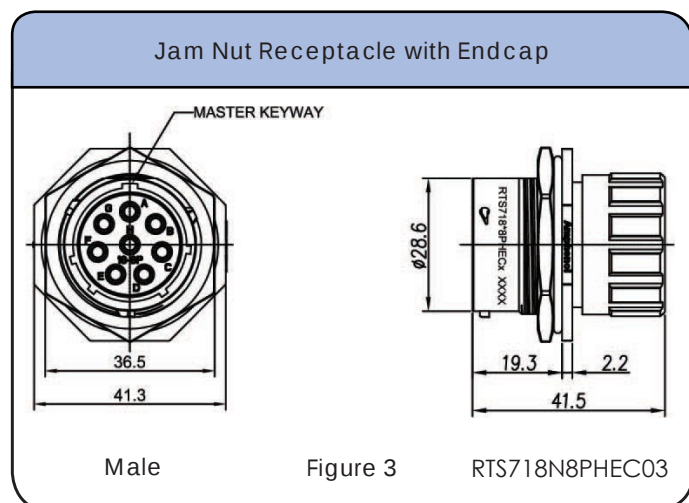
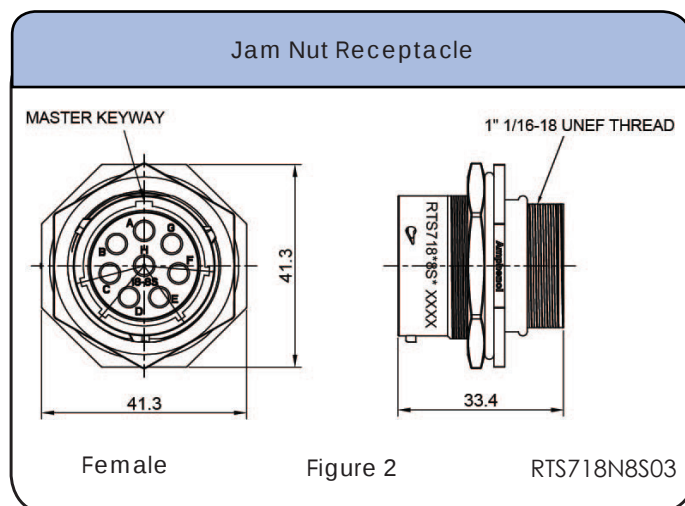
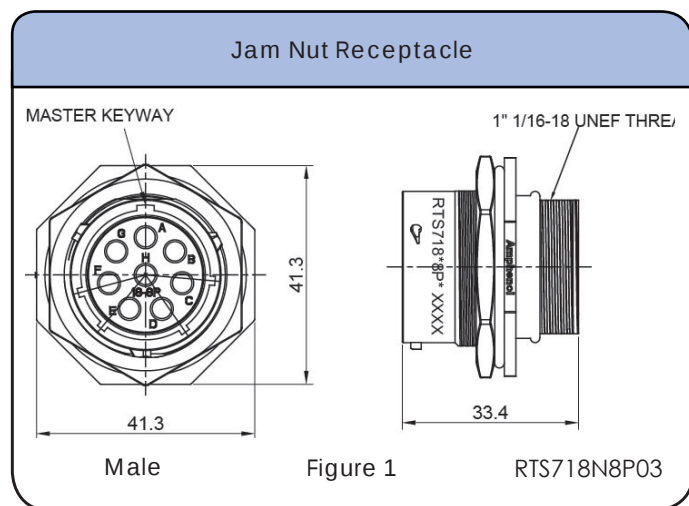
PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS18N4P03	Straight plug with cord grip, 8 positions, size 18, pin contact, silicone rubber seal	-40 to 125°C	8
RTS6BS18N4PHEC03	Straight plug with end cap, 8 positions, size 18, pin contact, silicone rubber seal, endcap	-40 to 125°C	9
RTS6BS18N4S03	Straight plug with cord grip, 8 positions, size 18, socket contact, silicone rubber seal	-40 to 125°C	10
RTS6BS18N4SHEC03	Straight plug with end cap, 8 positions, size 18, socket contact, silicone rubber seal, endcap	-40 to 125°C	11

Contacts supplied separately see page 133

Shell Size: 18 Number of Contacts: 8
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 2.5mm

Dimensions Jam Nut

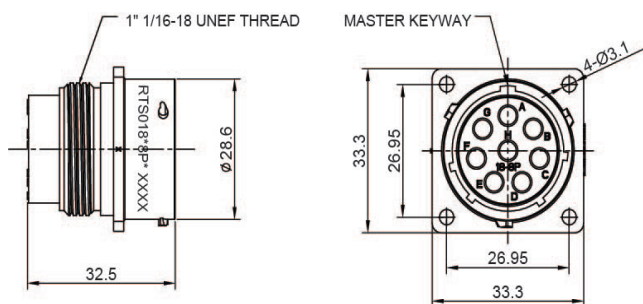


Shell Size: 18 Number of Contacts: 8
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 2.5mm

Dimensions Square Flange Receptacles

Sqaure Flange Receptacle

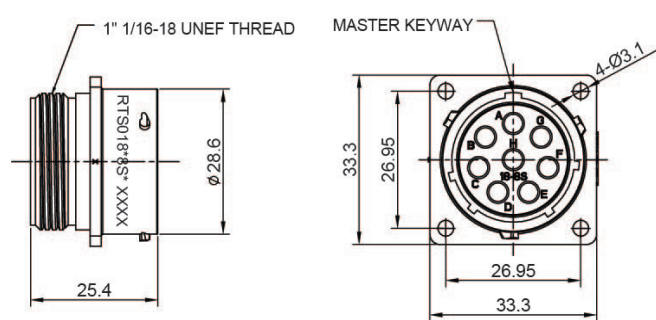


Male

Figure 4

RTS018N8P03

Sqaure Flange Receptacle

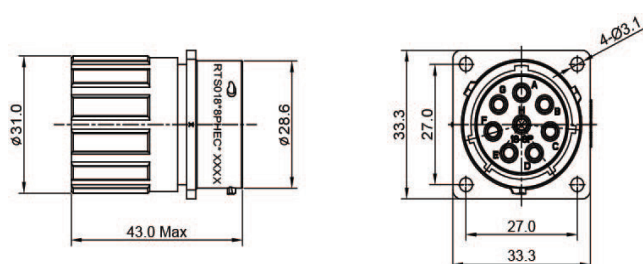


Female

Figure 5

RTS018N8S03

Sqaure Flange Receptacle with Endcaps

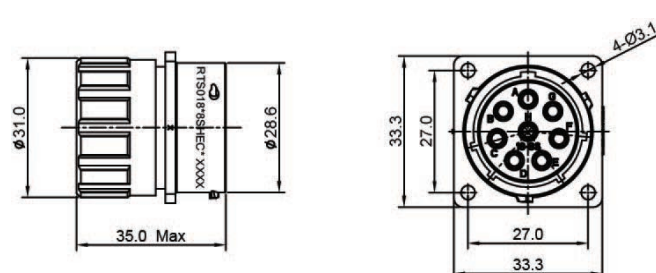


Male

Figure 6

RTS018N8PHEC03

Sqaure Flange Receptacle with Endcap



Female

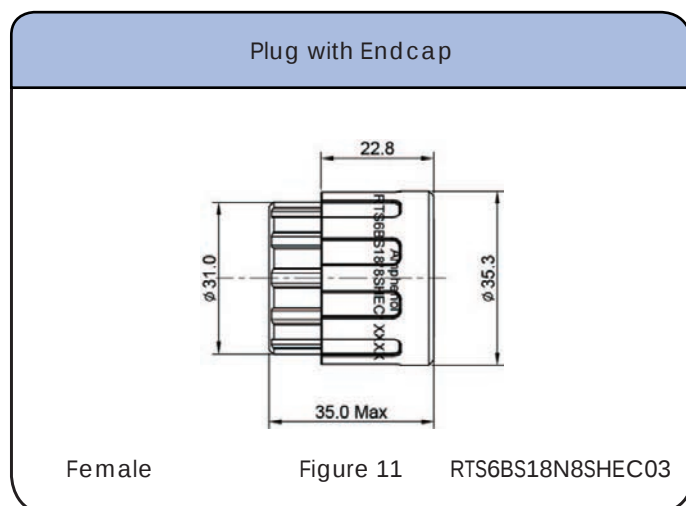
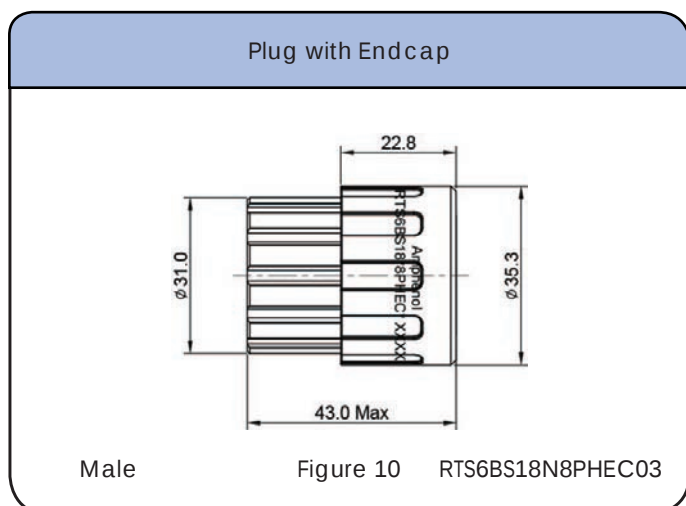
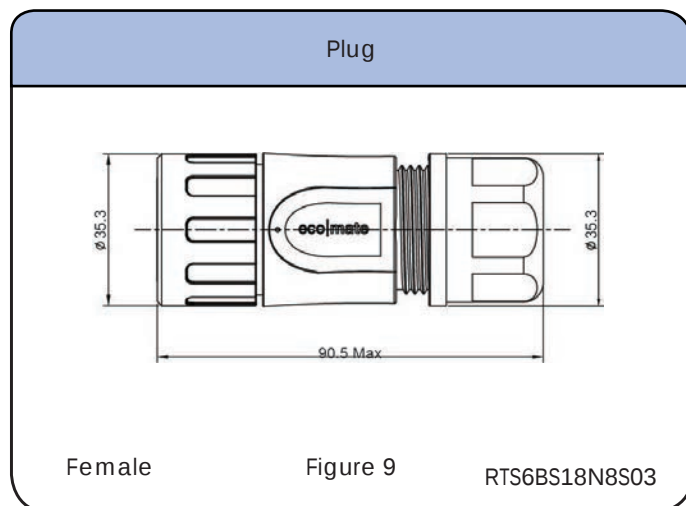
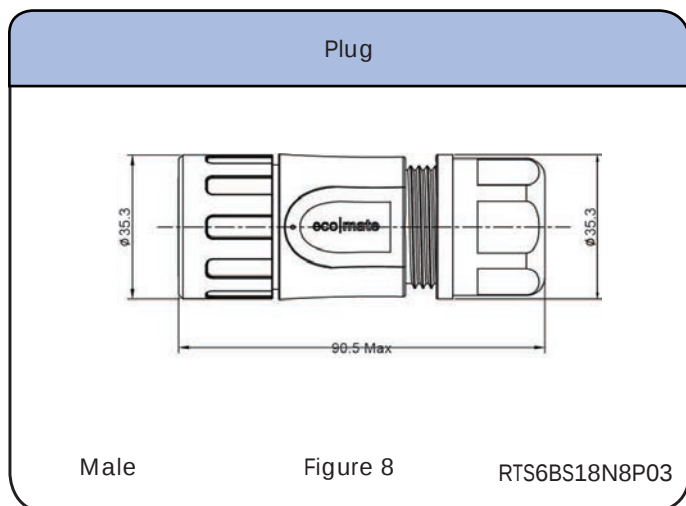
Figure 7

RTS018N8SHEC03

Shell Size: 18 Number of Contacts: 8
Sealing: IP67 / IP69k Salt Spray: 500h

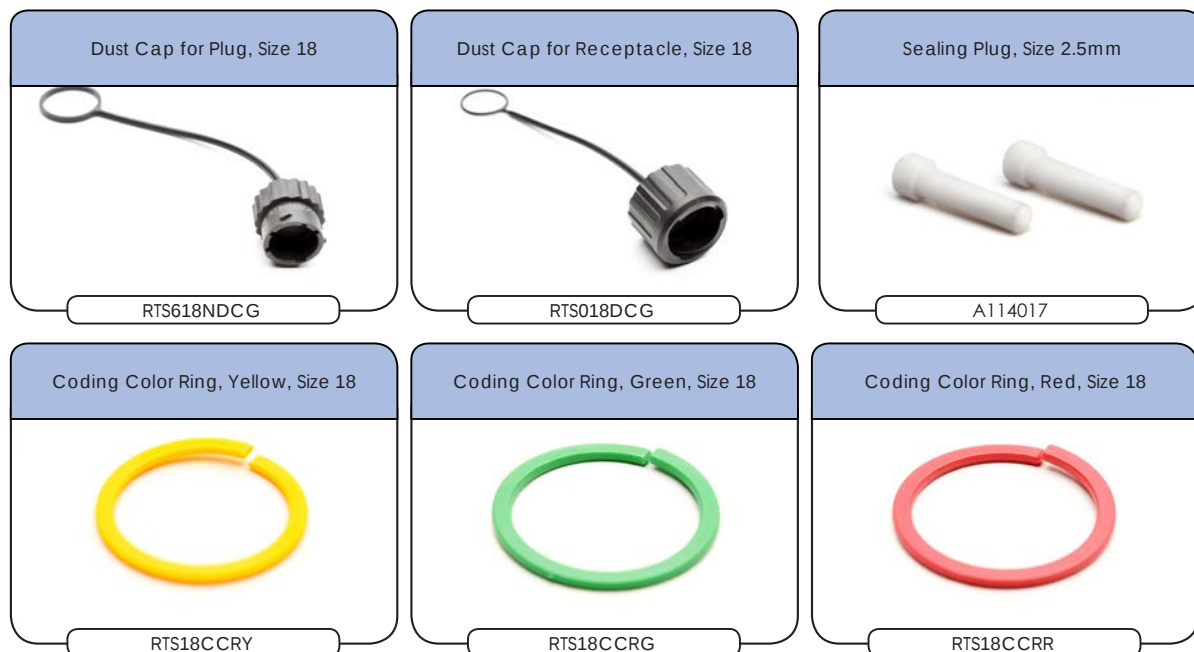
Contact Size: 2.5mm

Dimensions Plugs



Shell Size: 18 Number of Contacts: 8 Contact Size: 2.5mm
Sealing: IP67 / IP69k Salt Spray: 500h

Accessories



Contacts



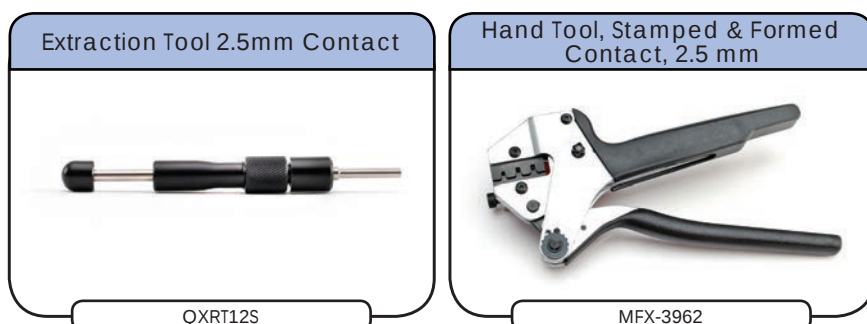
Stamped & Formed Contacts

Crimp Contacts, Stamped & Formed

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
SP12A1T	SS12A1T	14-12	2.5-3.5	Tin

*No machined contacts are available for this group

Tools



STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



RTS716N09P03



RTS716N09S03



RTS716N09PHEC03



RTS716N09SHEC03

Square Flange Receptacles



RTS016N09P03



RTS016N09S03



RTS016N09PHEC03



RTS016N09SHEC03

Plug



RTS6BS16N09P03



RTS6BS16N09S03



RTS6BS16N09PHEC03



RTS6BS16N09SHEC03

SEE TABLE ON NEXT PAGE FOR PART DETAILS

CONTACTS SOLD SEPARATELY SEE PAGE 140

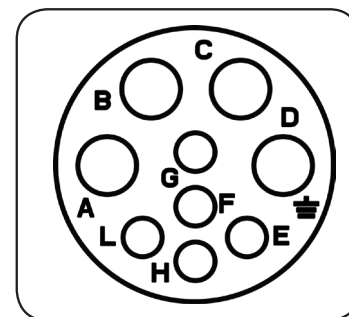
Shell Size: 16 Number of Contacts: 9 (4+5)

Contact Size: 4-16/5-2.5mm

Sealing: IP67 / IP69k Salt Spray: 500h

eco|mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +125°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers - Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS716N09P03	Receptacle, jam nut, 4+5 positions, size 16, pin contact, silicone rubber seal	-40 to 125°C	1
RTS716N09PHEC03	Receptacle, jam nut, 4+5 positions, size 16, pin contact, silicone rubber seal, endcap	-40 to 125°C	3
RTS716N09S03	Receptacle, jam nut, 4+5 positions, size 16, socket contact, silicone rubber seal	-40 to 125°C	2
RTS716N09SHEC03	Receptacle, jam nut, 4+5 positions, size 16, socket contact, silicone rubber seal, endcap	-40 to 125°C	4
RTS016N09P03	Receptacle, square flange, 4+5 positions, size 16, pin contact, silicone rubber seal	-40 to 125°C	5
RTS016N09PHEC03	Receptacle, square flange, 4+5 positions, size 16, pin contact, silicone rubber seal, endcap	-40 to 125°C	7
RTS016N09S03	Receptacle, square flange, 4+5 positions, size 16, socket contact, silicone rubber seal	-40 to 125°C	6
RTS016N09SHEC03	Receptacle, square flange, 4+5 positions, size 16, socket contact, silicone rubber seal, endcap	-40 to 125°C	8

Connector Part Numbers - Plugs

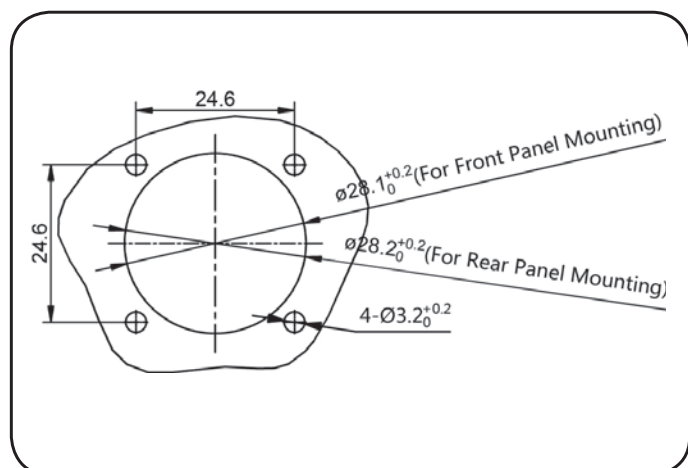
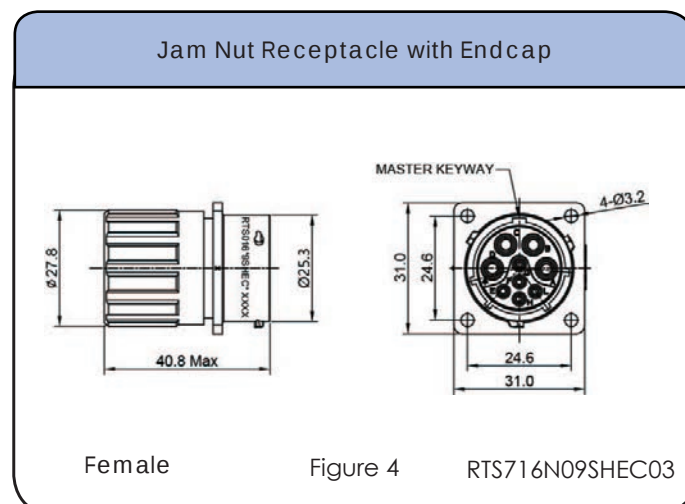
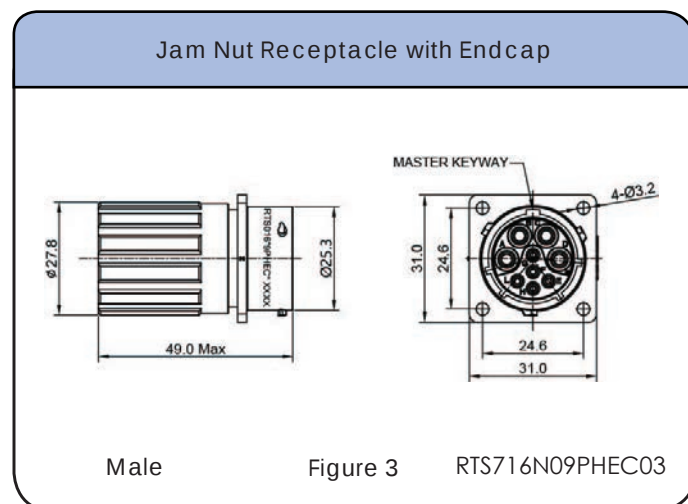
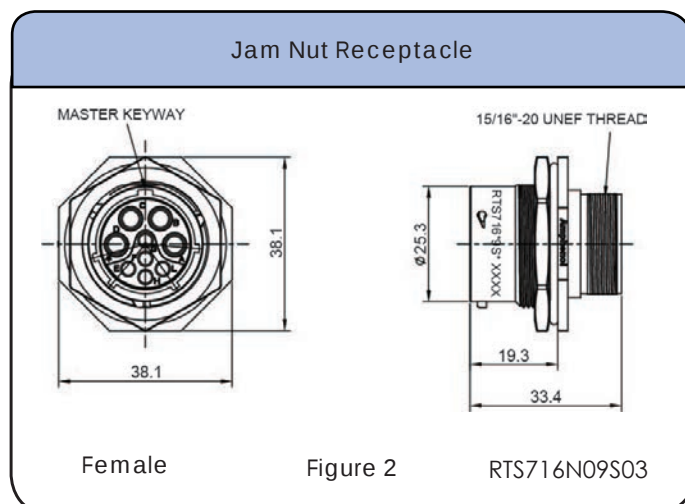
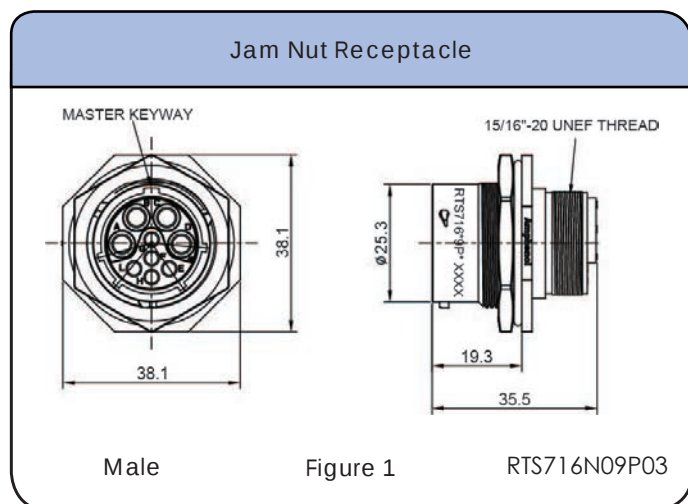
PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS16N09P03	Straight plug with cord grip, 4+5 positions, size 16, pin contact, silicone rubber seal	-40 to 125°C	9
RTS6BS16N09PHEC03	Straight plug with end cap, 4+5 positions, size 16, pin contact, silicone rubber seal	-40 to 125°C	12
RTS6BS16N09S03	Straight plug with cord grip, 4+5 positions, size 16, socket contact, silicone rubber seal	-40 to 125°C	10
RTS6BS16N09SHEC03	Straight plug with end cap, 4+5 positions, size 16, socket contact, silicone rubber seal	-40 to 125°C	11

Contacts supplied separately see page 140

Shell Size: 16 Number of Contacts: 9 (4+5)
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 4-16/5-2.5mm

Dimensions Jam Nut Receptacles

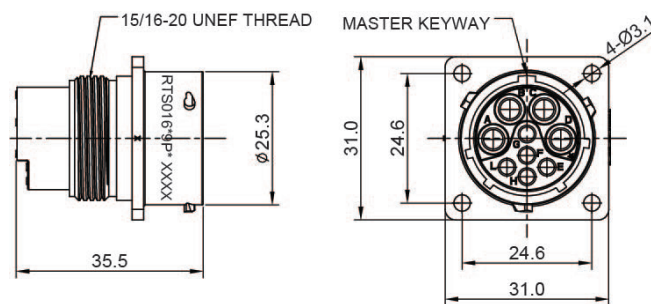


Shell Size: 16 Number of Contacts: 9 (4+5)
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 4-16/5-2.5mm

Dimensions Square Flange Receptacles

Sqaure Flange Receptacle

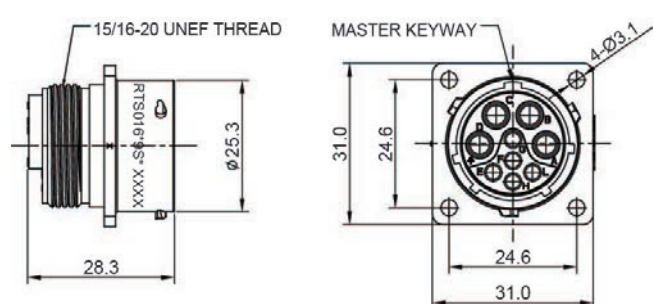


Male

Figure 5

RTS016N09P03

Sqaure Flange Receptacle

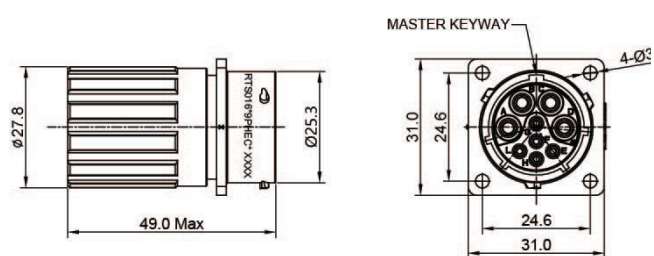


Female

Figure 6

RTS016N09S03

Sqaure Flange Receptacle with Endcap

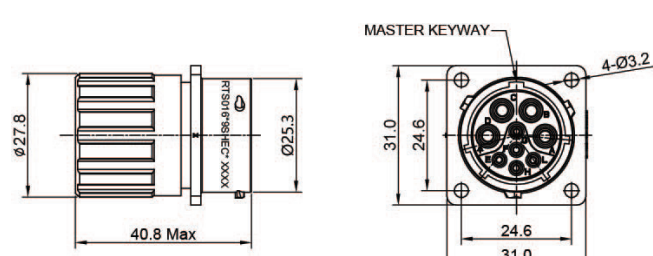


Male

Figure 7

RTS016N09PHEC03

Sqaure Flange Receptacle with Endcap



Female

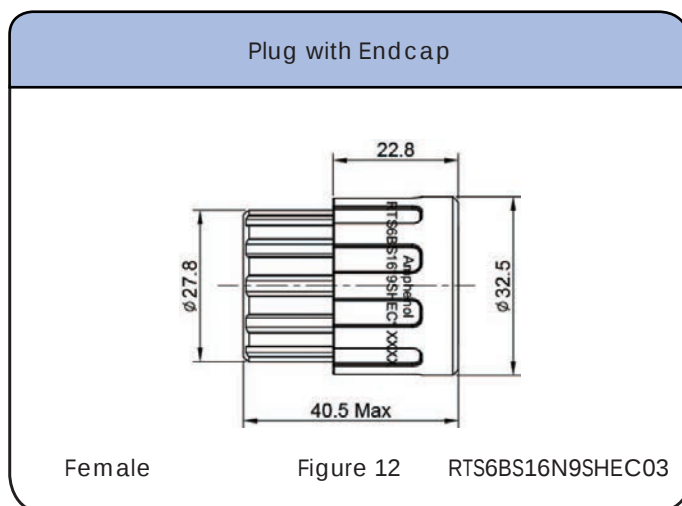
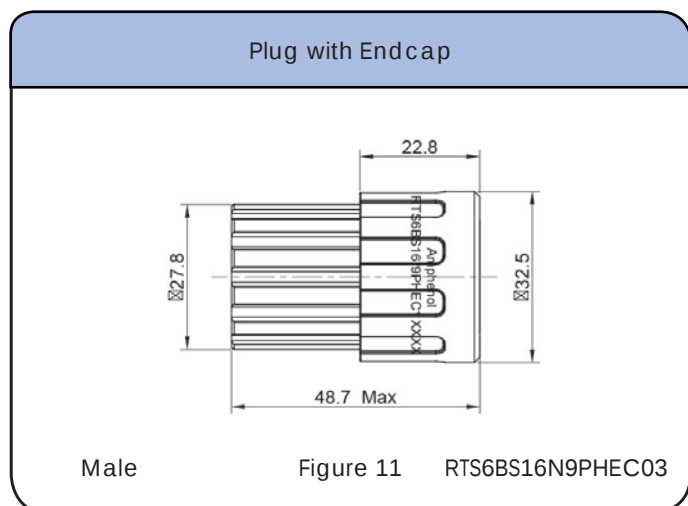
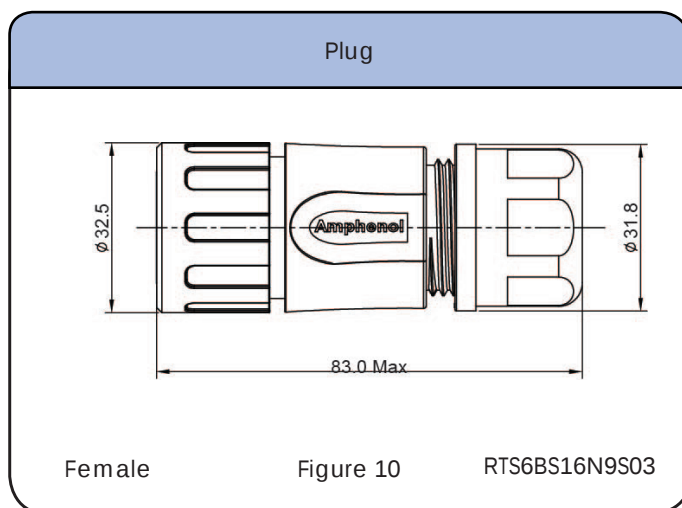
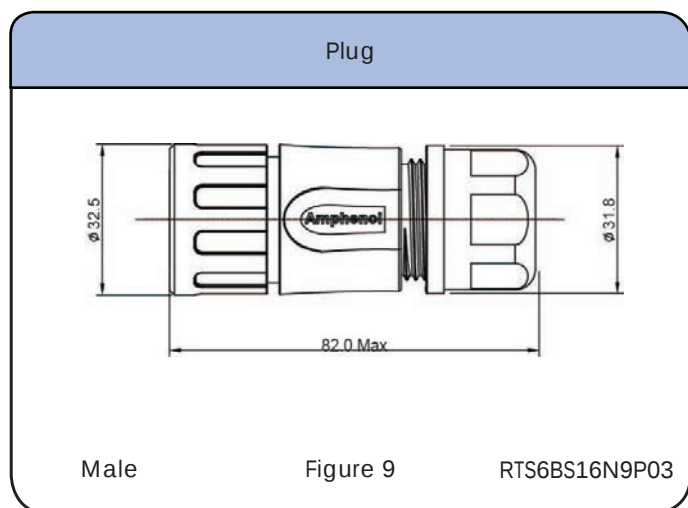
Figure 8

RTS016N09SHEC03

Shell Size: 16 Number of Contacts: 9 (4+5)
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 4-16/5-2.5mm

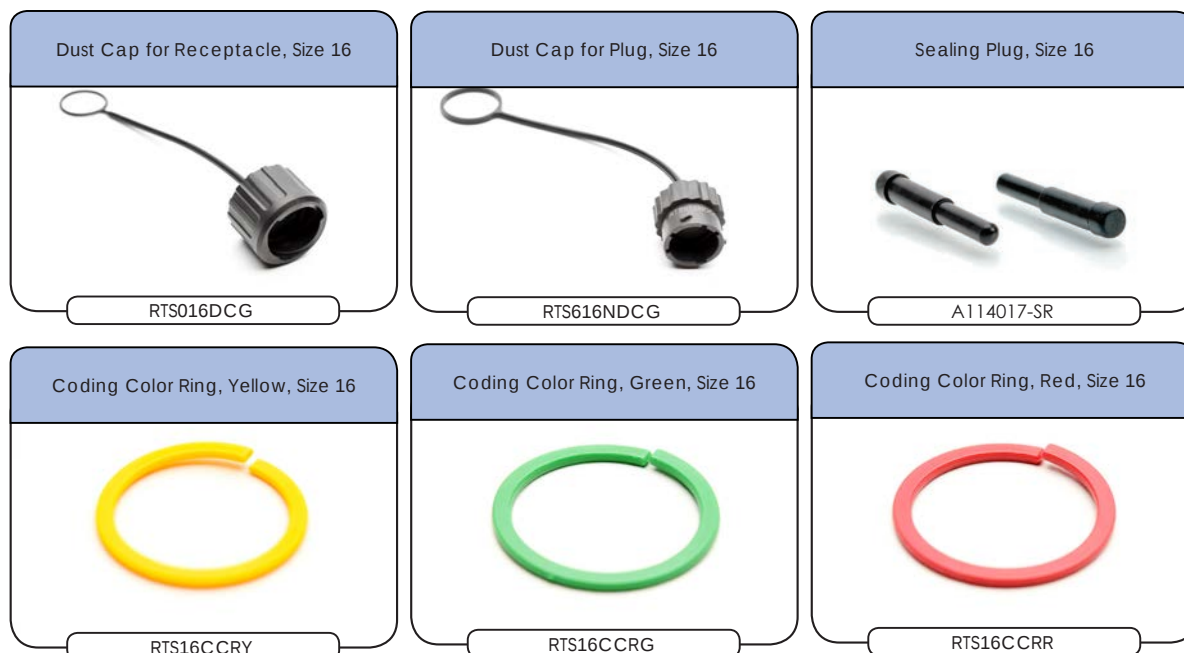
Dimensions Plugs



Shell Size: 16 **Number of Contacts: 9 (4+5)**
Sealing: IP67 / IP69k **Salt Spray: 500h**

Contact Size: 4-16/5-2.5mm

Accessories



Shell Size: 16 Number of Contacts: 9 (4+5) Contact Size: 4-16/5-2.5mm
 Sealing: IP67 / IP69k Salt Spray: 500h

Contacts Machined



Crimp Contacts, Machined

Part Number		Contact Size	AWG	Wire Range (mm ²)	Plating
Male	Female				
MP14M23F	MS14M23F	16	14	2.0-2.5	Gold Flash
MP14M23G5	MS14M23G5	16	14	2.0-2.5	Gold 5μ"
MP14M23G10	MS14M23G10	16	14	2.0-2.5	Gold 10μ"
MP14M23G15	MS14M23G15	16	14	2.0-2.5	Gold 15μ"
MP14M23G30	MS14M23G30	16	14	2.0-2.5	Gold 30μ"
MP16M23F	MS16M23F	16	18-16	.75-1.5	Gold Flash
MP16M23G5	MS16M23G5	16	18-16	.75-1.5	Gold 5μ"
MP16M23G10	MS16M23G10	16	18-16	.75-1.5	Gold 10μ"
MP16M23G15	MS16M23G15	16	18-16	.75-1.5	Gold 15μ"
MP16M23G30	MS16M23G30	16	18-16	.75-1.5	Gold 30μ"
MP20M23F	MS20M23F	16	22-20	.34-.50	Gold Flash
MP20M23G5	MS20M23G5	16	22-20	.34-.50	Gold 5μ"
MP20M23G10	MS20M23G10	16	22-20	.34-.50	Gold 10μ"
MP20M23G15	MS20M23G15	16	22-20	.34-.50	Gold 15μ"
MP20M23G30	MS20M23G30	16	22-20	.34-.50	Gold 30μ"
MP24M23F	MS24M23F	16	26-24	.14-.25	Gold Flash
MP24M23G5	MS24M23G5	16	26-24	.14-.25	Gold 5μ"
MP24M23G10	MS24M23G10	16	26-24	.14-.25	Gold 10μ"
MP24M23G15	MS24M23G15	16	26-24	.14-.25	Gold 15μ"
MP24M23G30	MS24M23G30	16	26-24	.14-.25	Gold 30μ"

Tools

Extraction Tool 2.5mm Contact



QXRT12S

Hand Crimp Tool for Machined Contacts



MFX-3959

Pneumatic Crimp Tool for Machined Contacts



MFX-3960

Shell Size: 16 **Number of Contacts: 9 (4+5)**
Sealing: IP67 / IP69k **Salt Spray: 500h**

Contact Size: 4-16/5-2.5mm

Contacts Stamped & Formed



Crimp Contacts, Stamped & Formed

Part Number		Contact Size	AWG	Wire Range (mm ²)	Plating
Male	Female				
SP12A1T	SS12A1T	2.5mm	14-12	2.5-3.5	Tin
SP14M2F	SS14M2F	16	14	2.0-2.5	Gold Flash
SP14M2G5	SS14M2G5	16	14	2.0-2.5	Gold 5μ"
SP14M2G10	SS14M2G10	16	14	2.0-2.5	Gold 10μ"
SP14M2G15	SS14M2G15	16	14	2.0-2.5	Gold 15μ"
SP14M2G30	SS14M2G30	16	14	2.0-2.5	Gold 30μ"
SP16M2F	SS16M2F	16	18-16	.75-1.5	Gold Flash
SP16M2G5	SS16M2G5	16	18-16	.75-1.5	Gold 5μ"
SP16M2G10	SS16M2G10	16	18-16	.75-1.5	Gold 10μ"
SP16M2G15	SS16M2G15	16	18-16	.75-1.5	Gold 15μ"
SP16M2G30	SS16M2G30	16	18-16	.75-1.5	Gold 30μ"
SP20M2F	SS20M2F	16	22-20	.34-.50	Gold Flash
SP20M2G5	SS20M2G5	16	22-20	.34-.50	Gold 5μ"
SP20M2G10	SS20M2G10	16	22-20	.34-.50	Gold 10μ"
SP20M2G15	SS20M2G15	16	22-20	.34-.50	Gold 15μ"
SP20M2G30	SS20M1G30	16	22-20	.34-.50	Gold 30μ"
SP24M2F	SS24M2F	16	26-24	.14-.25	Gold Flash
SP24M2G5	SS24M2G5	16	26-24	.14-.25	Gold 5μ"
SP24M2G10	SS24M2G10	16	26-24	.14-.25	Gold 10μ"
SP24M2G15	SS24M2G15	16	26-24	.14-.25	Gold 15μ"
SP24M2G30	SS24M2G30	16	26-24	.14-.25	Gold 30μ"

Tools

Extraction Tool 2.5mm Contact



QXRT12S

Contact Extraction Tool, #16 (Ø 1.6) Contact



QXRT16

Hand Tool, Stamped & Formed Contact, 2.5 mm



MFx-3962

Hand Tool, Stamped & Formed Contact, Size 16, 20-14 AWG



MFx-3954

Crimp Die for Stamped & Formed Contact



MFx-3957

STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



RTS712N10P03



RTS712N10S03



RTS712N10PHEC03

Square Flange Receptacles



RTS012N10P03



RTS012N10S03



RTS012N10PHEC03



RTS012N10SHEC03

Plug



RTS6BS12N10P03



RTS6BS12N10S03



RTS6BS12N10PHEC03



RTS6BS12N10SHEC03

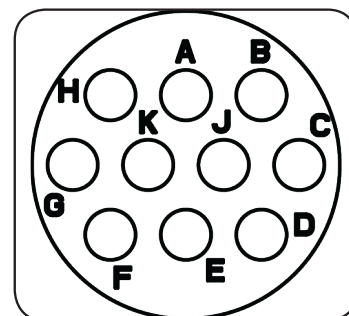
SEE TABLE ON NEXT PAGE FOR PART DETAILS

CONTACTS SOLD SEPARATELY SEE PAGE 148

Shell Size: 12 Number of Contacts: 10 Contact Size: 20
Sealing: IP67 / IP69k Salt Spray: 500h

eco | mate® Aquarius
Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +125°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers -Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS712N10P03	Receptacle, jam nut, 10 positions, size 12, pin contact, silicone rubber seal	-40 to 125°C	1
RTS712N10PHEC03	Receptacle, jam nut, 10 positions, size 12, pin contact, silicone rubber seal, endcap	-40 to 125°C	3
RTS712N10S03	Receptacle, jam nut, 10 positions, size 12, socket contact, silicone rubber seal	-40 to 125°C	2
RTS012N10P03	Receptacle, square flange, 10 positions, size 12, pin contact, silicone rubber seal	-40 to 125°C	4
RTS012N10PHEC03	Receptacle, square flange, 10 positions, size 12, pin contact, silicone rubber seal, endcap	-40 to 125°C	6
RTS012N10S03	Receptacle, square flange, 10 positions, size 12, socket contact, silicone rubber seal	-40 to 125°C	5
RTS012N10SHEC03	Receptacle, square flange, 10 positions, size 12, socket contact, silicone rubber seal, endcap	-40 to 125°C	7

Connector Part Numbers -Plugs

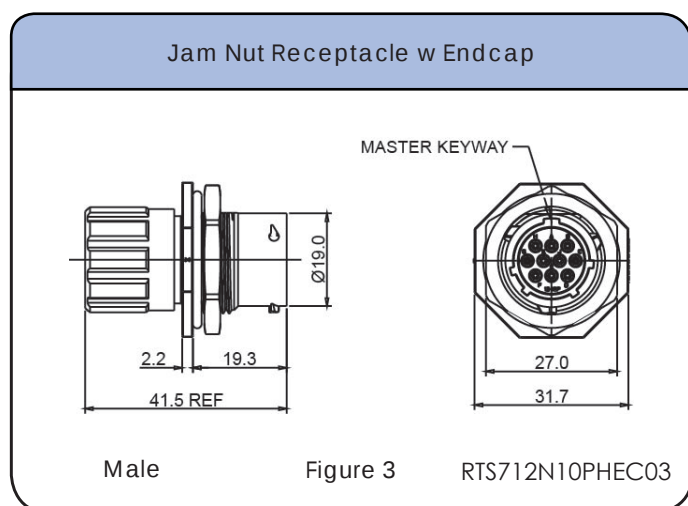
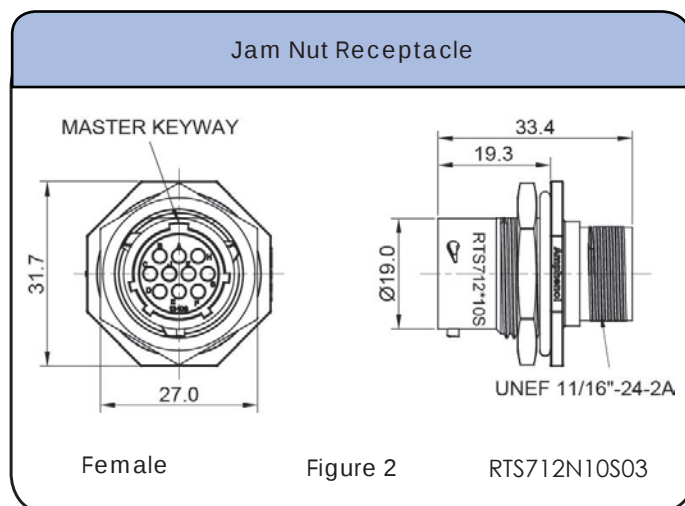
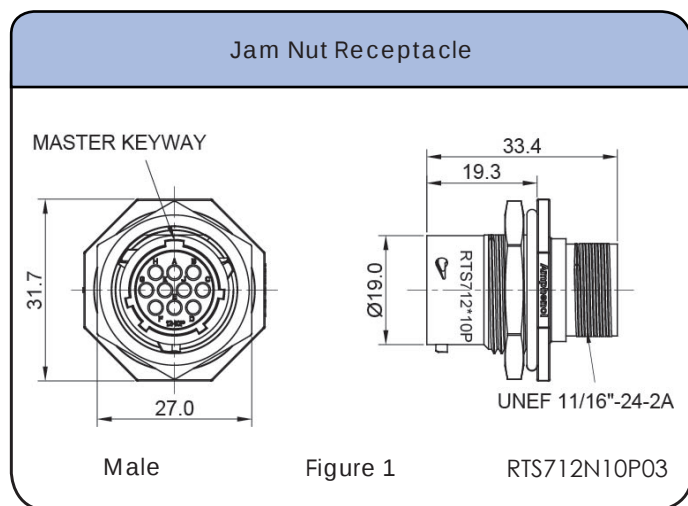
PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS12N10P03	Straight plug with cord grip, 10 positions, size 12, pin contact, silicone rubber seal	-40 to 125°C	8
RTS6BS12N10PHEC03	Straight plug with end cap, 10 positions, size 12, pin contact, silicone rubber seal	-40 to 125°C	10
RTS6BS12N10S03	Straight plug with cord grip, 10 positions, size 12, socket contact, silicone rubber seal	-40 to 125°C	9
RTS6BS12N10SHEC03	Straight plug with end cap, 10 positions, size 12, socket contact, silicone rubber seal	-40 to 125°C	11

Contacts supplied separately see page 148

Shell Size: 12 Number of Contacts: 10
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 20

Dimensions Jam Nut

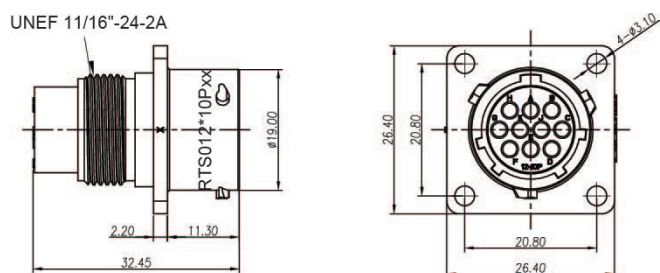


Shell Size: 12 Number of Contacts: 10
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 20

SquareFlange Receptacles

Square Flange Receptacle

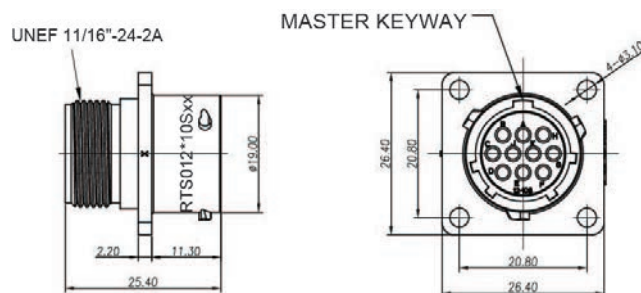


Male

Figure 4

RTS012N10P03

Square Flange Receptacle

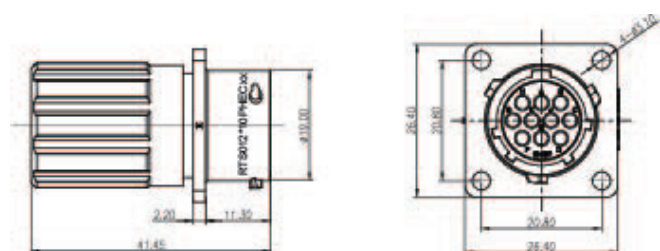


Female

Figure 5

RTS012N10S03

Square Flange Receptacle with Endcap

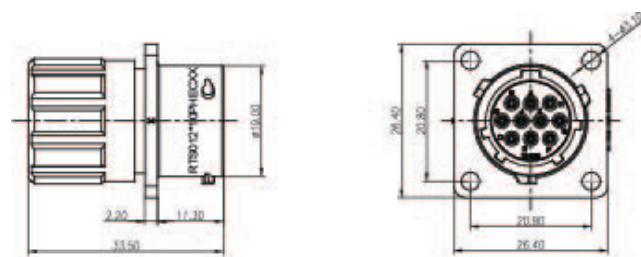


Male

Figure 6

RTS012N10PHEC03

Square Flange Receptacle with Endcap



Female

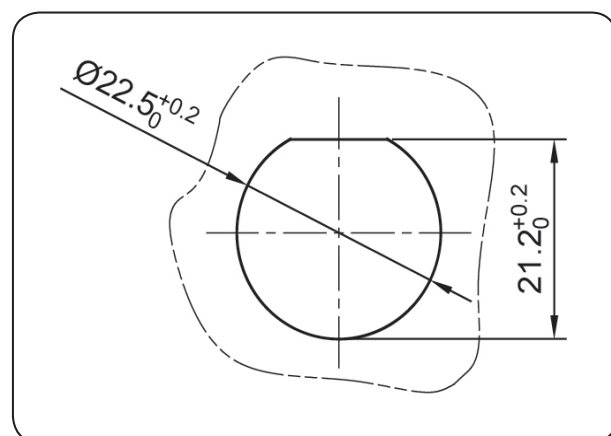
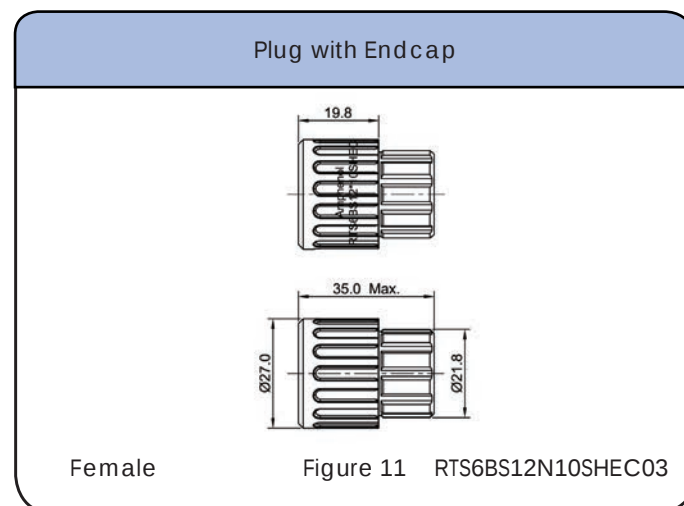
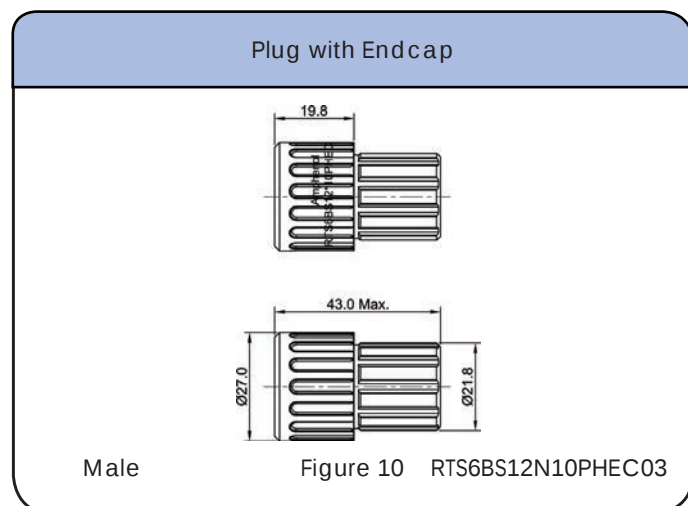
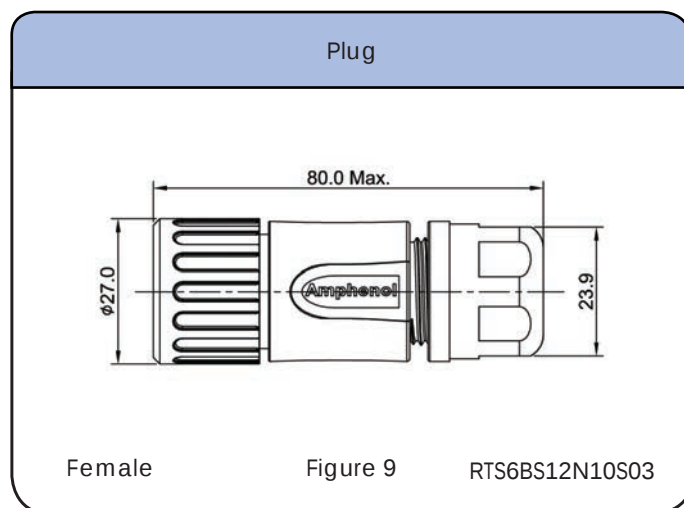
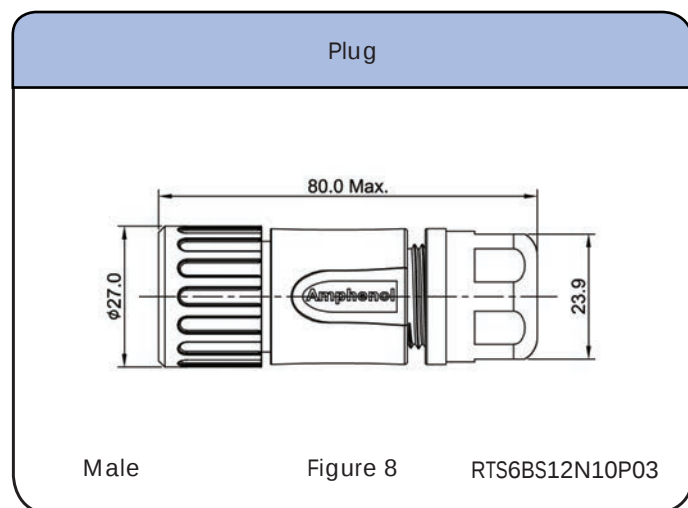
Figure 7

RTS012N10SHEC03

Shell Size: 12 Number of Contacts: 10
Sealing: IP67 / IP69k Salt Spray: 500h

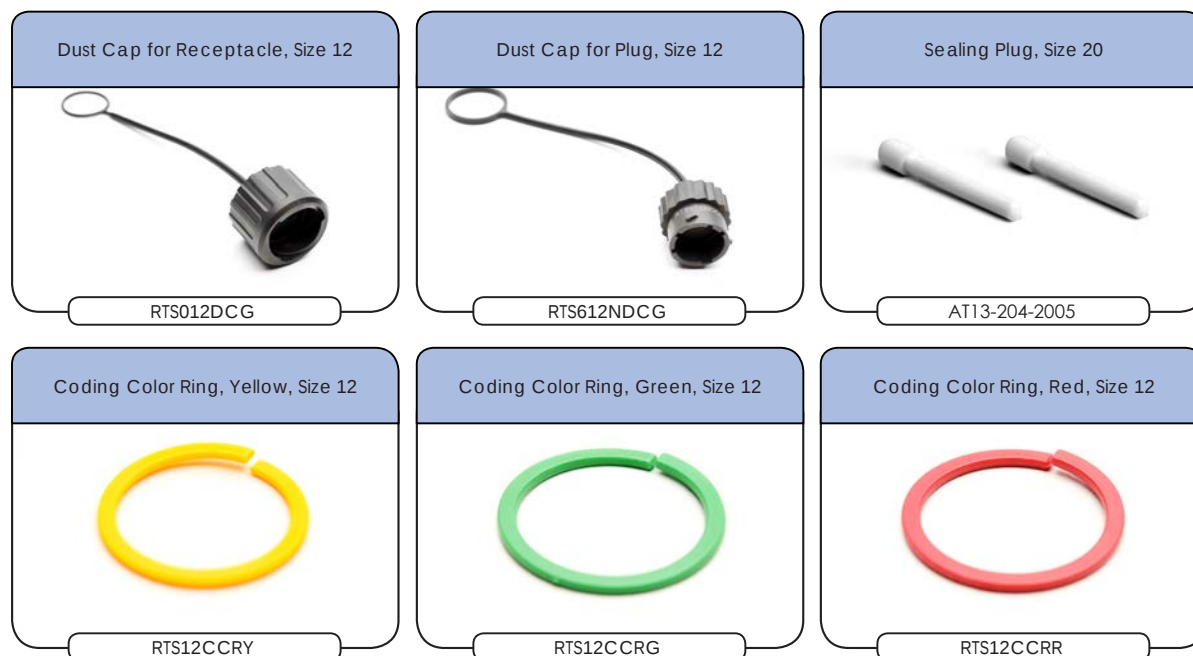
Contact Size: 20

Dimensions Plugs



Shell Size: 12 Number of Contacts: 10 Contact Size: 20
Sealing: IP67 / IP69k Salt Spray: 500h

Accessories



Shell Size: 12 Number of Contacts: 10 Contact Size: 20
 Sealing: IP67 / IP69k Salt Spray: 500h

Contacts Machined



Crimp Contacts, Machined

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
MP20W23F	MS20W23F	22-20	.34-.50	Gold Flash
MP20W23G5	MS20W23G5	22-20	.34-.50	Gold 5μ"
MP20W23G10	MS20W23G10	22-20	.34-.50	Gold 10μ"
MP20W23G15	MS20W23G15	22-20	.34-.50	Gold 15μ"
MP20W23G30	MS20W23G30	22-20	.34-.50	Gold 30μ"
MP24W23F	MS24W23F	26-24	.13-.25	Gold Flash
MP24W23G5	MS24W23G5	26-24	.13-.25	Gold 5μ"
MP24W23G10	MS24W23G10	26-24	.13-.25	Gold 10μ"
MP24W23G15	MS24W23G15	26-24	.13-.25	Gold 15μ"
MP24W23G30	MS24W23G30	26-24	.13-.25	Gold 30μ"
MP28W23F	MS28W23F	30-28	.05-.08	Gold Flash
MP28W23G5	MS28W23G5	30-28	.05-.08	Gold 5μ"
MP28W23G10	MS28W23G10	30-28	.05-.08	Gold 10μ"
MP28W23G15	MS28W23G15	30-28	.05-.08	Gold 15μ"
MP28W23G30	MS28W23G30	30-28	.05-.08	Gold 30μ"

Tools

Contact Extraction Tool,
#20 (Ø 1.6) Contact



QXRT20

Hand Crimp Tool for
Machined Contacts



MF3-3959

Pneumatic Crimp Tool for
Machined Contact



MF3-3960

Shell Size: 12 Number of Contacts: 10 Contact Size: 20
Sealing: IP67 / IP69k Salt Spray: 500h

Contacts Stamped & Formed



Crimp Contacts, Stamped & Formed

Part Number		AWG	Wire Range (mm²)	Plating
Male	Female			
SP20W2F	SS20W2F	22-20	.34-.50	Gold Flash
SP20W2G5	SS20W2G5	22-20	.34-.50	Gold 5μ"
SP20W2G10	SS20W2G10	22-20	.34-.50	Gold 10μ"
SP20W2G15	SS20W2G15	22-20	.34-.50	Gold 15μ"
SP20W2G30	SS20W2G30	22-20	.34-.50	Gold 30μ"
SP24W2F	SS24W2F	26-24	.14-.25	Gold Flash
SP24W2G5	SS24W2G5	26-24	.14-.25	Gold 5μ"
SP24W2G10	SS24W2G10	26-24	.14-.25	Gold 10μ"
SP24W2G15	SS24W2G15	26-24	.14-.25	Gold 15μ"
SP24W2G30	SS24W2G30	26-24	.14-.25	Gold 30μ"
SP28W2F	SS28W2F	30-28	.05-.08	Gold Flash
SP28W2G5	SS28W2G5	30-28	.05-.08	Gold 5μ"
SP28W2G10	SS28W2G10	30-28	.05-.08	Gold 10μ"
SP28W2G15	SS28W2G15	30-28	.05-.08	Gold 15μ"
SP28W2G30	SS28W2G30	30-28	.05-.08	Gold 30μ"

Tools

Contact Extraction Tool,
#20 (Ø 1.6) Contact



QXRT20

Hand Tool, Stamped & Formed
Contact, Size 20 20-28AWG



MFX-3958

Crimp Die for Stamped &
Formed Contact



MFX-3957

STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



RTS714N12P03



RTS714N12S03



RTS714N12PHEC03

Square Flange Receptacles



RTS014N12P03



RTS014N12S03



RTS014N12PHEC03



RTS014N12SHEC03

Plug



RTS6BS14N12P03



RTS6BS14N12S03



RTS6BS14N12PHEC03



RTS6BS14N12SHEC03

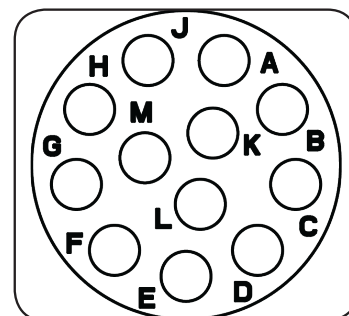
SEE TABLE ON NEXT PAGE FOR PART DETAILS

CONTACTS SOLD SEPARATELY SEE PAGE 156

Shell Size: 14 Number of Contacts: 12 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

eco|mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +125°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers -Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS714N12P03	Receptacle, jam nut, 12 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	1
RTS714N12PHEC03	Receptacle, jam nut, 12 positions, size 14, pin contact, silicone rubber seal, endcap	-40 to 125°C	3
RTS714N12S03	Receptacle, jam nut, 12 positions, size 14, socket contact, silicone rubber seal	-40 to 125°C	2
RTS014N12P03	Receptacle, square flange, 12 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	4
RTS014N12PHEC03	Receptacle, square flange, 12 positions, size 14, pin contact, silicone rubber seal, encap	-40 to 125°C	7
RTS014N12S03	Receptacle, square flange, 12 positions, size 14, socket contact, silicone rubber seal	-40 to 125°C	5
RTS014N12SHEC03	Receptacle, square flange, 12 positions, size 14, socket contact, silicone rubber seal, encap	-40 to 125°C	6

Connector Part Numbers -Plugs

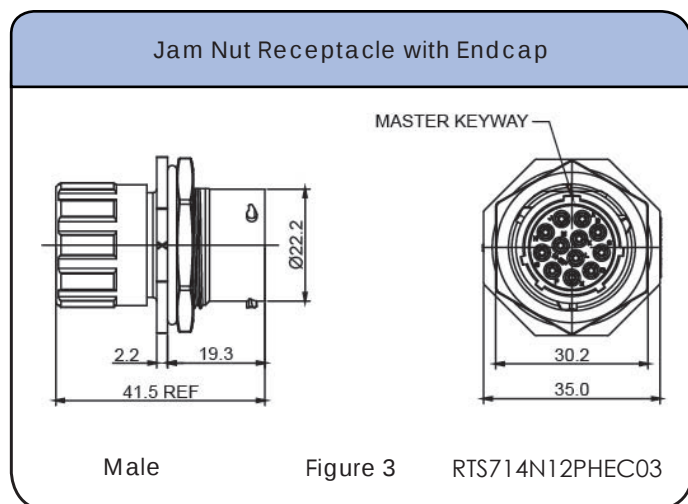
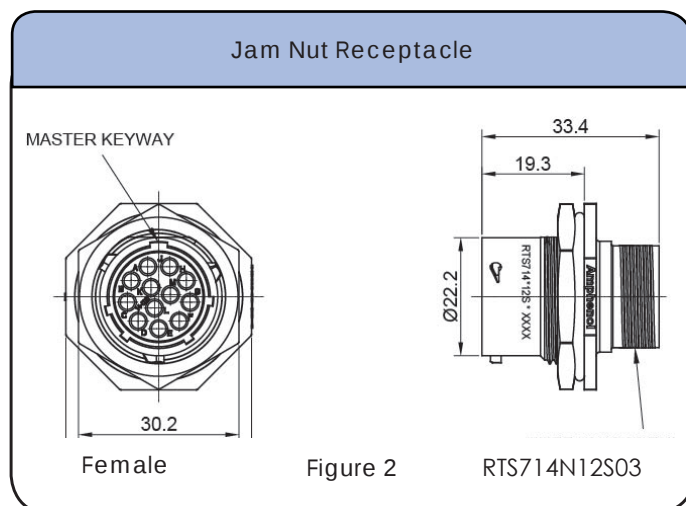
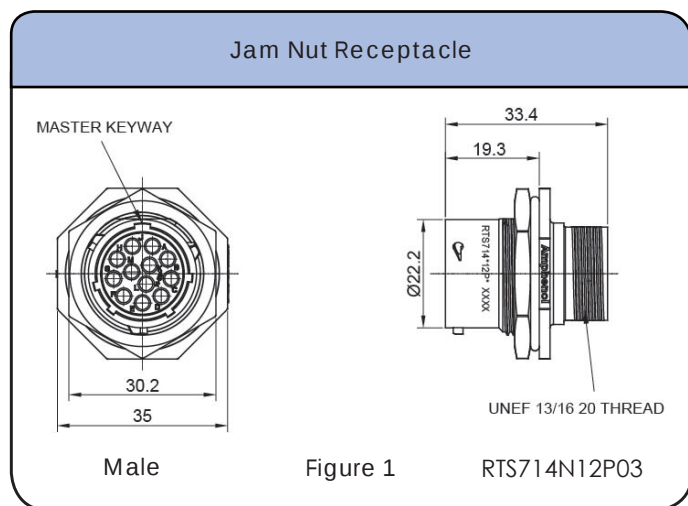
PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS14N12P03	Straight plug with cord grip, 12 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	8
RTS6BS14N12PHEC03	Straight plug with end cap, 12 positions, size 14, pin contact, endcap, silicone rubber seal	-40 to 125°C	10
RTS6BS14N12S03	Straight plug with cord grip, 12 positions, size 14, socket contact, silicone rubber seal	-40 to 125°C	9
RTS6BS14N12SHEC03	Straight plug with end cap, 12 positions, size 14, socket contact, endcap, silicone rubber seal	-40 to 125°C	11

Contacts supplied separately see page 156

Shell Size: 14 Number of Contacts: 12
 Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 16

Dimensions Jam Nut Receptacle

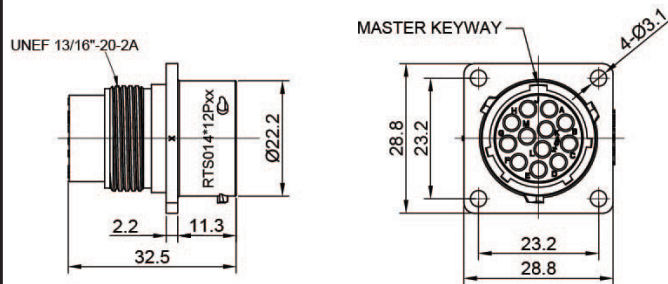


Shell Size: 14 Number of Contacts: 12
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 16

Dimensions Square Flange Receptacles

Square Flange Receptacle

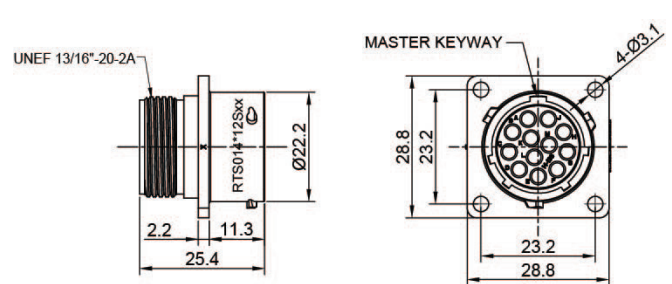


Male

Figure 4

RTS014N12P03

Square Flange Receptacle

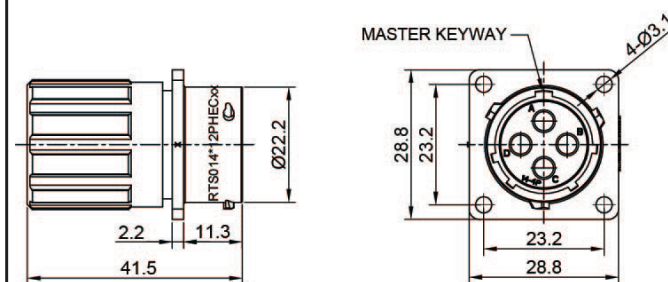


Female

Figure 5

RTS014N12S03

Square Flange Receptacle with Endcap

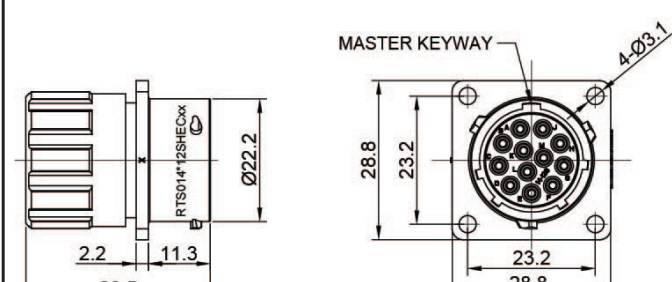


Male

Figure 6

RTS014N12PHEC03

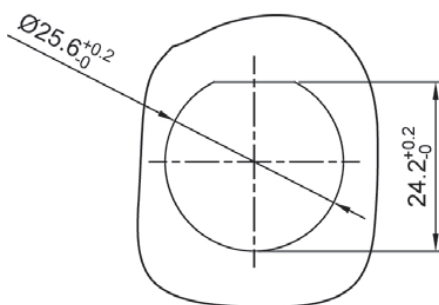
Square Flange Receptacle with Endcap



Female

Figure 7

RTS014N12SHEC03

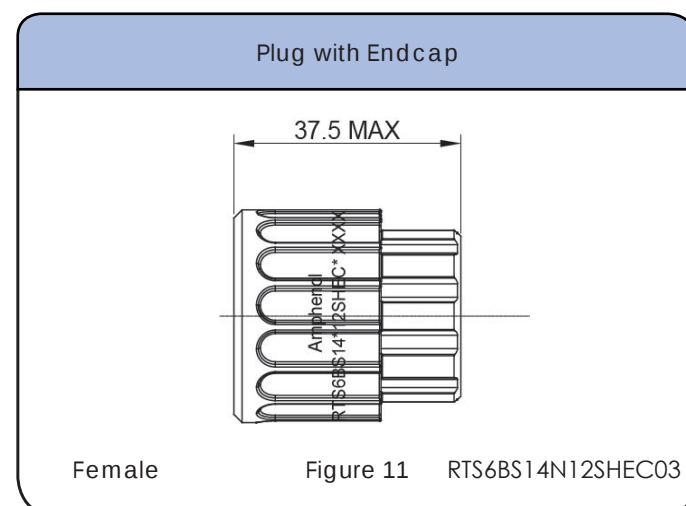
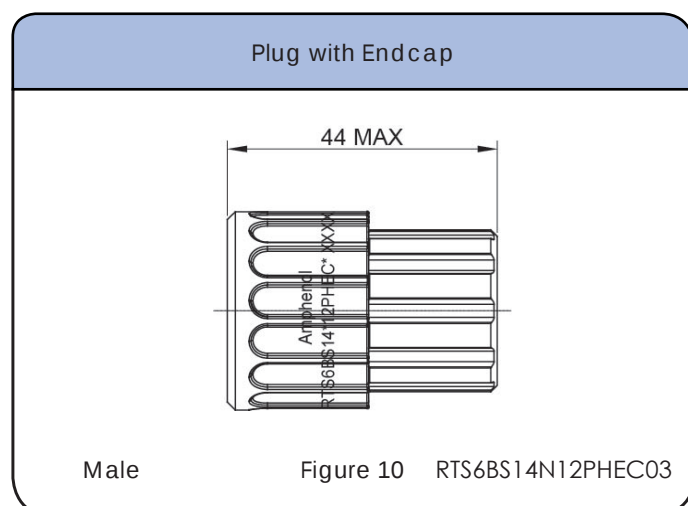
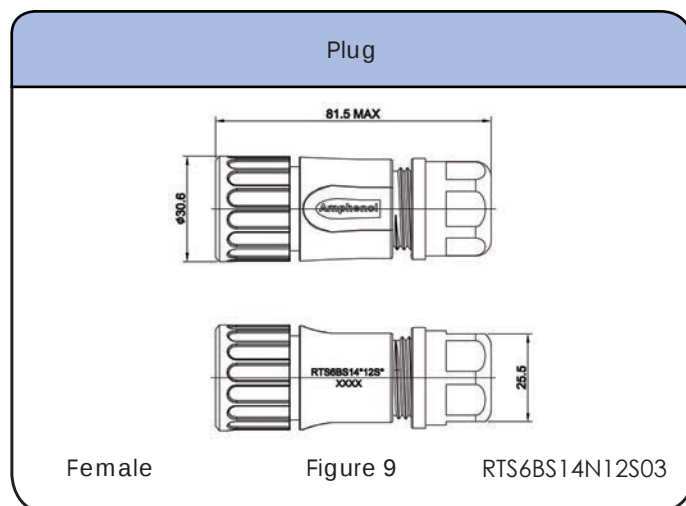
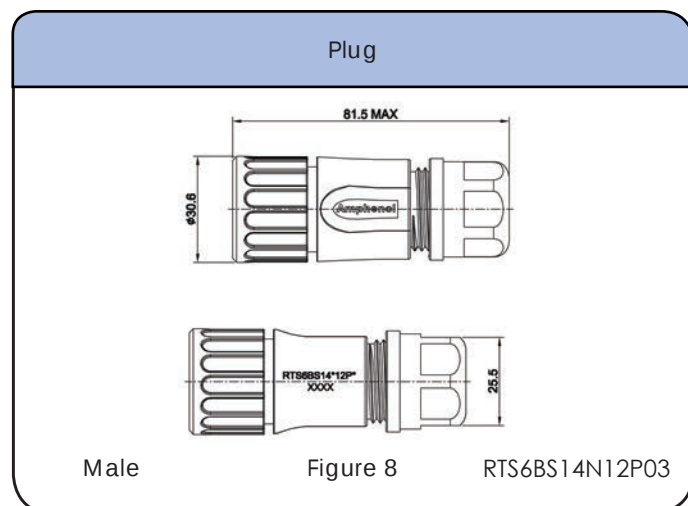


PANEL CUTOUT REFERENCE
THICKNESS: 3.2MM (MAX)

Shell Size: 14 Number of Contacts: 12
Sealing: IP67 / IP69k Salt Spray: 500h

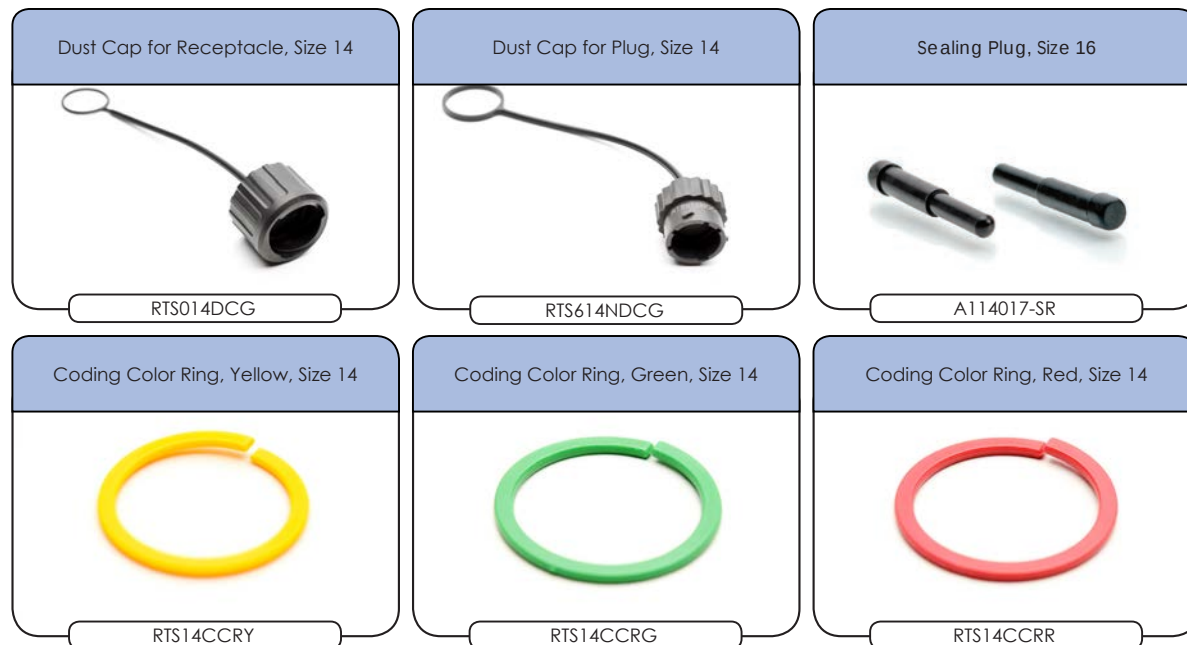
Contact Size: 16

Dimensions Plugs



Shell Size: 14 Number of Contacts: 12 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

Accessories



Shell Size: 14 Number of Contacts: 12 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

Contacts



Crimp Contacts, Machined

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
MP14M23F	MS14M23F	14	2.0-2.5	Gold Flash
MP14M23G5	MS14M23G5	14	2.0-2.5	Gold 5μ"
MP14M23G10	MS14M23G10	14	2.0-2.5	Gold 10μ"
MP14M23G15	MS14M23G15	14	2.0-2.5	Gold 15μ"
MP14M23G30	MS14M23G30	14	2.0-2.5	Gold 30μ"
MP16M23F	MS16M23F	18-16	.75-1.5	Gold Flash
MP16M23G5	MS16M23G5	18-16	.75-1.5	Gold 5μ"
MP16M23G10	MS16M23G10	18-16	.75-1.5	Gold 10μ"
MP16M23G15	MS16M23G15	18-16	.75-1.5	Gold 15μ"
MP16M23G30	MS16M23G30	18-16	.75-1.5	Gold 30μ"
MP20M23F	MS20M23F	22-20	.34-.50	Gold Flash
MP20M23G5	MS20M23G5	22-20	.34-.50	Gold 5μ"
MP20M23G10	MS20M23G10	22-20	.34-.50	Gold 10μ"
MP20M23G15	MS20M23G15	22-20	.34-.50	Gold 15μ"
MP20M23G30	MS20M23G30	22-20	.34-.50	Gold 30μ"
MP24M23F	MS24M23F	26-24	.14-.25	Gold Flash
MP24M23G5	MS24M23G5	26-24	.14-.25	Gold 5μ"
MP24M23G10	MS24M23G10	26-24	.14-.25	Gold 10μ"
MP24M23G15	MS24M23G15	26-24	.14-.25	Gold 15μ"
MP24M23G30	MS24M23G30	26-24	.14-.25	Gold 30μ"

Tools

Contact Extraction Tool,
#16 (Ø 1.6) Contact



QXRT16

Hand Crimp Tool for
Machined Contacts



MFX-3959

Pneumatic Crimp Tool for
Machined Contacts



MFX-3960

Shell Size: 14 Number of Contacts: 12 Contact Size: 16

Sealing: IP67 / IP69k Salt Spray: 500h

Contacts (con't)



Stamped & Formed Contacts

Crimp Contacts, Stamped & Formed

Part Number		AWG	Wire Range (mm²)	Plating
Male	Female			
SP14M2F	SS14M2F	14	2.0-2.5	Gold Flash
SP14M2G5	SS14M2G5	14	2.0-2.5	Gold 5μ"
SP14M2G10	SS14M2G10	14	2.0-2.5	Gold 10μ"
SP14M2G15	SS14M2G15	14	2.0-2.5	Gold 15μ"
SP14M2G30	SS14M2G30	14	2.0-2.5	Gold 30μ"
SP16M2F	SS16M2F	18-16	.75-1.5	Gold Flash
SP16M2G5	SS16M2G5	18-16	.75-1.5	Gold 5μ"
SP16M2G10	SS16M2G10	18-16	.75-1.5	Gold 10μ"
SP16M2G15	SS16M2G15	18-16	.75-1.5	Gold 15μ"
SP16M2G30	SS16M2G30	18-16	.75-1.5	Gold 30μ"
SP20M2F	SS20M2F	22-20	.34-.50	Gold Flash
SP20M2G5	SS20M2G5	22-20	.34-.50	Gold 5μ"
SP20M2G10	SS20M2G10	22-20	.34-.50	Gold 10μ"
SP20M2G15	SS20M2G15	22-20	.34-.50	Gold 15μ"
SP20M2G30	SS20M1G30	22-20	.34-.50	Gold 30μ"
SP24M2F	SS24M2F	26-24	.14-.25	Gold Flash
SP24M2G5	SS24M2G5	26-24	.14-.25	Gold 5μ"
SP24M2G10	SS24M2G10	26-24	.14-.25	Gold 10μ"
SP24M2G15	SS24M2G15	26-24	.14-.25	Gold 15μ"
SP24M2G30	SS24M2G30	26-24	.14-.25	Gold 30μ"

Tools

Contact Extraction Tool,
#16 (Ø 1.6) Contact



QXRT16

Hand Tool, Stamped & Formed
Contact, Size 16, 20-14 AWG



MFX-3954

Crimp Die for Stamped
& Formed Contact



MFX-3957

STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



RTS714N19P03



RTS714N19S03



RTS714N19PHEC03

Square Flange Receptacles



RTS014N19P03



RTS014N19S03



RTS014N19PHEC03



RTS014N19SHEC03

Plug



RTS6BS14N19P03



RTS6BS14N19S03



RTS6BS14N19PHEC03

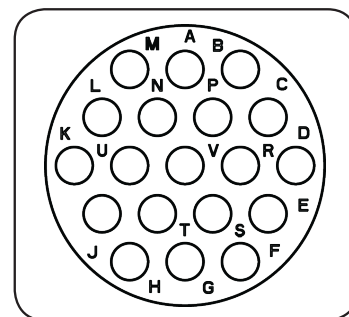


RTS6BS14N19SHEC03

Shell Size: 14 Number of Contacts: 19 Contact Size: 20
Sealing: IP67 / IP69k Salt Spray: 500h

eco|mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +125°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers - Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS714N19P03	Receptacle, jam nut, 19 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	1
RTS714N19PHEC03	Receptacle, jam nut, 19 positions, size 14, pin contact, silicone rubber seal, endcap	-40 to 125°C	3
RTS714N19S03	Receptacle, jam nut, 19 positions, size 14, for socket contact, silicone rubber seal	-40 to 125°C	2
RTS014N19P03	Receptacle, square flange, 19 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	4
RTS014N19PHEC03	Receptacle, square flange, 19 positions, size 14, pin contact, silicone rubber seal, endcap	-40 to 125°C	6
RTS014N19S03	Receptacle, square flange, 19 positions, size 14, for socket contact, silicone rubber seal	-40 to 125°C	5
RTS014N19SHEC03	Receptacle, square flange, 19 positions, size 14, for socket contact, silicone rubber seal, endcap	-40 to 125°C	7

Connector Part Numbers - Plugs

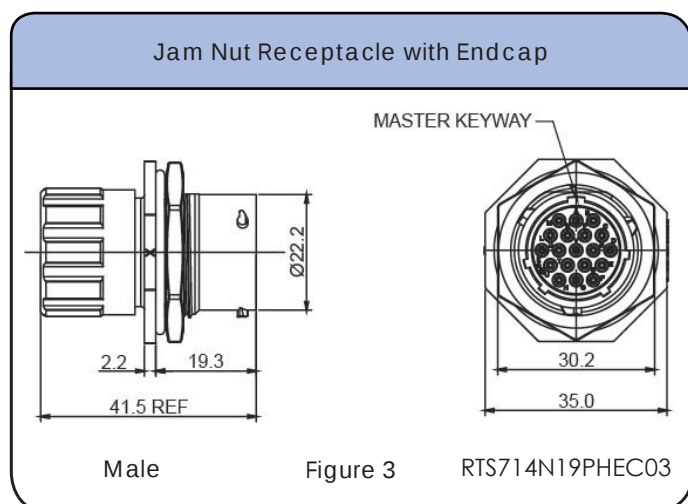
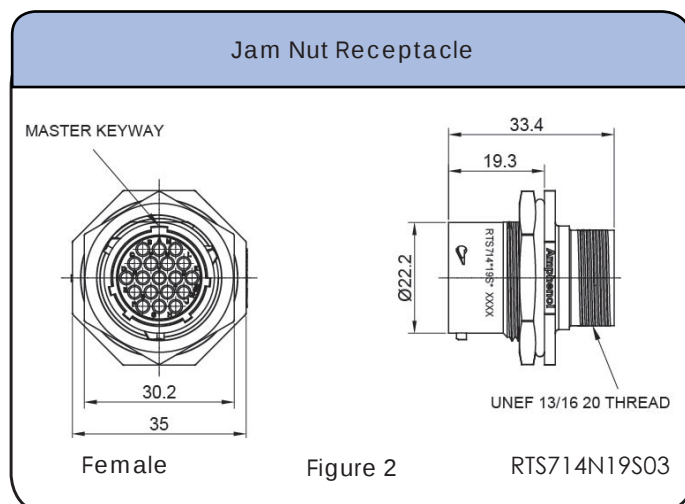
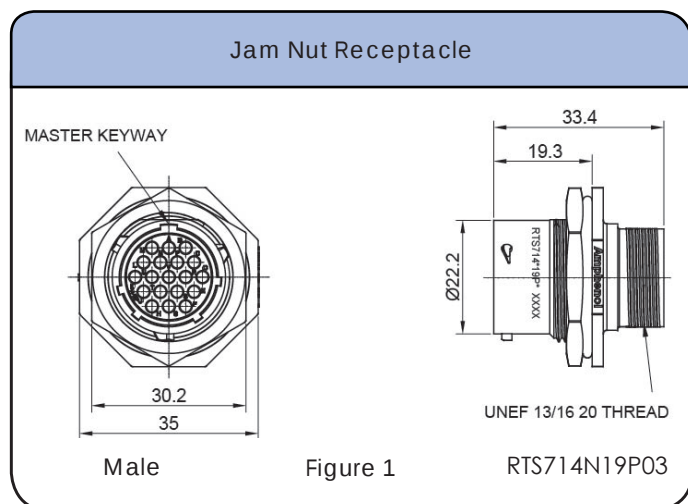
PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS14N19P03	Straight plug with cord grip, 19 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	8
RTS6BS14N19PHEC03	Straight plug with end cap, 19 positions, size 14, pin contact, silicone rubber seal	-40 to 125°C	10
RTS6BS14N19S03	Straight plug with cord grip, 19 positions, size 14, socket contact, silicone rubber seal	-40 to 125°C	9
RTS6BS14N19SHEC03	Straight plug with end cap, 19 positions, size 14, socket contact, silicone rubber seal	-40 to 125°C	11

Contacts supplied separately see page 164

Shell Size: 14 Number of Contacts: 19
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 20

Dimensions Jam Nut Receptacles

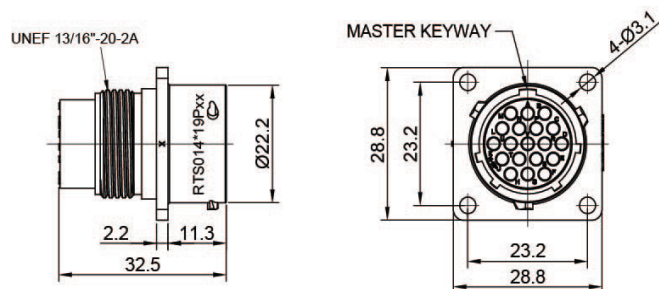


Shell Size: 14 Number of Contacts: 19 Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 20

Dimensions Square Flange Receptacles

Square Flange Receptacle

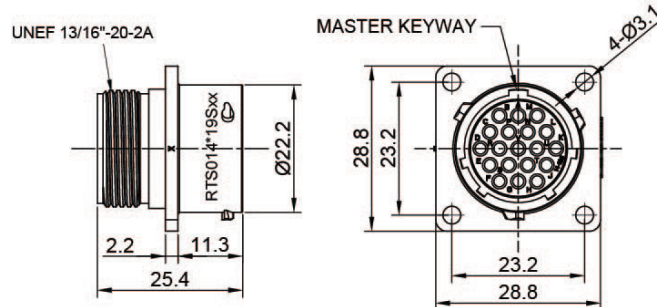


Male

Figure 4

RTS014N19P03

Square Flange Receptacle

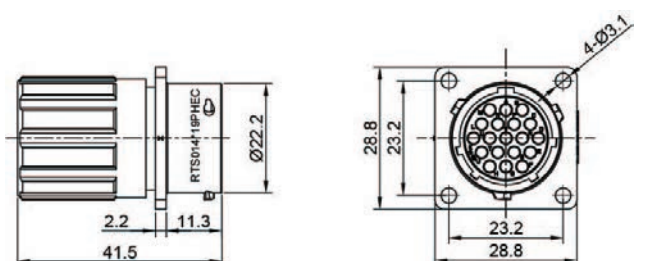


Female

Figure 5

RTS014N19S03

Square Flange Receptacle with Endcap

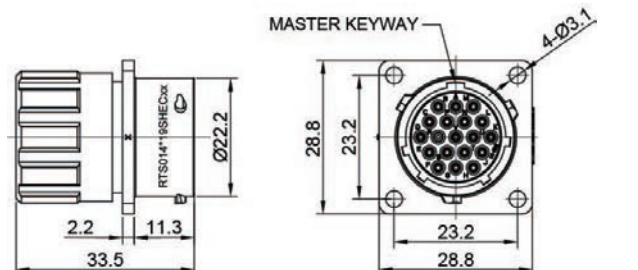


Male

Figure 6

RTS014N19PHEC03

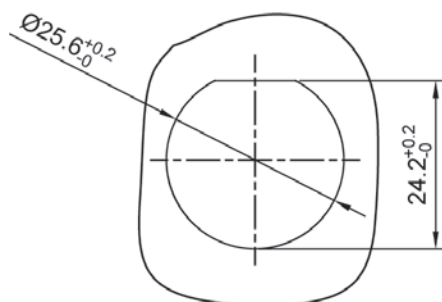
Square Flange Receptacle with Endcap



Female

Figure 7

RTS014N19SHEC03

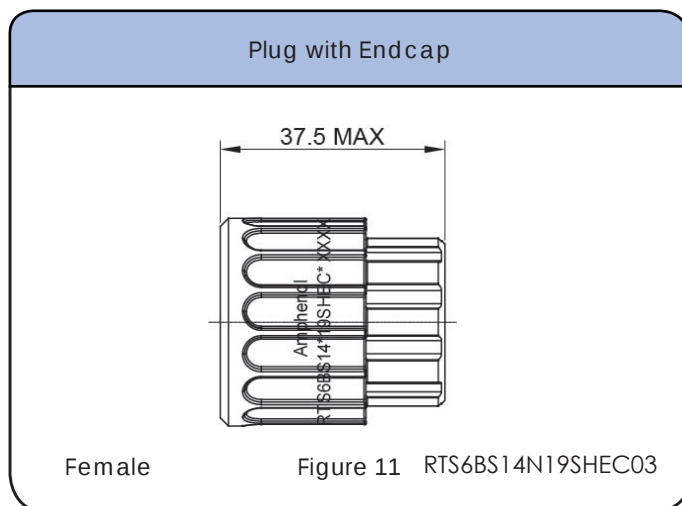
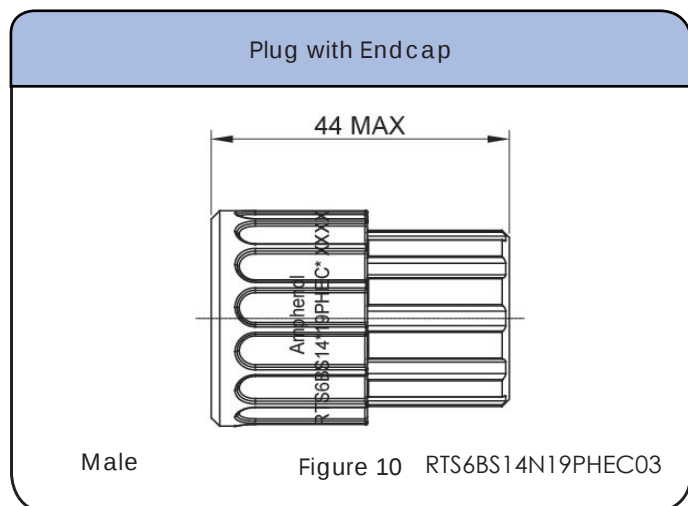
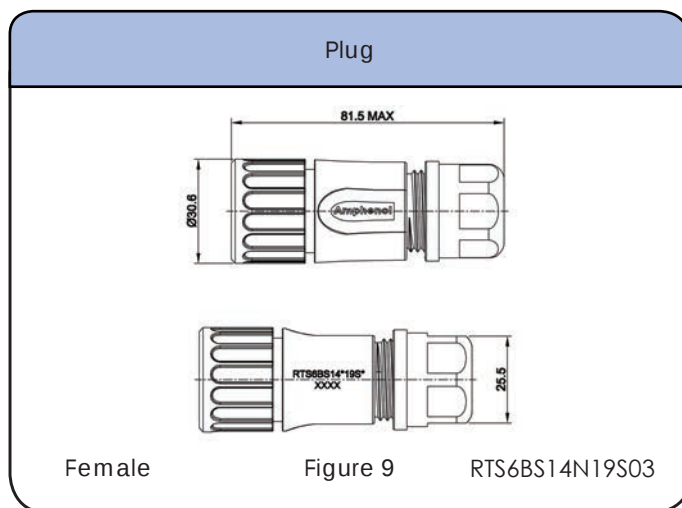
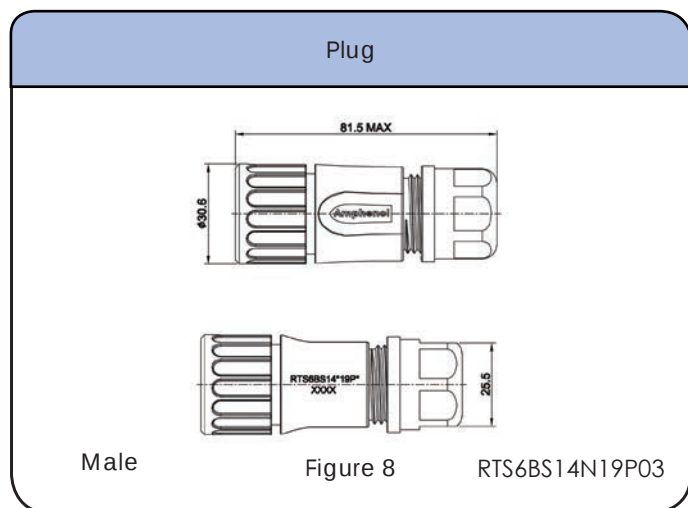


PANEL CUTOUT REFERENCE
THICKNESS:3.2MM (MAX)

Shell Size: 14 Number of Contacts: 19
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 20

Dimensions Plugs



Shell Size: 14 Number of Contacts: 19 Contact Size: 20
Sealing: IP67 / IP69k Salt Spray: 500h

Accessories

Dust Cap for Receptacle, Size 14  RTS014DCG	Dust Cap for Plug, Size 14  RTS614NDCG	Sealing Plug, Size 20  AT13-204-2005
Coding Color Ring, Yellow, Size 14  RTS14CCRY	Coding Color Ring, Green, Size 14  RTS14CCRG	Coding Color Ring, Red, Size 14  RTS14CCRR

Shell Size: 14 Number of Contacts: 19 Contact Size: 20
 Sealing: IP67 / IP69k Salt Spray: 500h

Contacts



Crimp Contacts, Machined

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
MP20W23F	MS20W23F	22-20	.34-.50	Gold Flash
MP20W23G5	MS20W23G5	22-20	.34-.50	Gold 5μ"
MP20W23G10	MS20W23G10	22-20	.34-.50	Gold 10μ"
MP20W23G15	MS20W23G15	22-20	.34-.50	Gold 15μ"
MP20W23G30	MS20W23G30	22-20	.34-.50	Gold 30μ"
MP24W23F	MS24W23F	26-24	.13-.25	Gold Flash
MP24W23G5	MS24W23G5	26-24	.13-.25	Gold 5μ"
MP24W23G10	MS24W23G10	26-24	.13-.25	Gold 10μ"
MP24W23G15	MS24W23G15	26-24	.13-.25	Gold 15μ"
MP24W23G30	MS24W23G30	26-24	.13-.25	Gold 30μ"
MP28W23F	MS28W23F	30-28	.05-.08	Gold Flash
MP28W23G5	MS28W23G5	30-28	.05-.08	Gold 5μ"
MP28W23G10	MS28W23G10	30-28	.05-.08	Gold 10μ"
MP28W23G15	MS28W23G15	30-28	.05-.08	Gold 15μ"
MP28W23G30	MS28W23G30	30-28	.05-.08	Gold 30μ"

Tools

Contact Extraction Tool,
#20 (Ø 1.6) Contact



QXRT20

Hand Crimp Tool for
Machined Contacts



MF3-3959

Pneumatic Crimp Tool for
Machined Contact



MF3-3957

Shell Size: 14 Number of Contacts: 19 Contact Size: 20
Sealing: IP67 / IP69k Salt Spray: 500h

Contacts (con't)



Stamped & Formed Contacts

Crimp Contacts, Stamped & Formed

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
SP20W2F	SS20W2F	22-20	.34-.50	Gold Flash
SP20W2G5	SS20W2G5	22-20	.34-.50	Gold 5μ"
SP20W2G10	SS20W2G10	22-20	.34-.50	Gold 10μ"
SP20W2G15	SS20W2G15	22-20	.34-.50	Gold 15μ"
SP20W2G30	SS20W2G30	22-20	.34-.50	Gold 30μ"
SP24W2F	SS24W2F	26-24	.14-.25	Gold Flash
SP24W2G5	SS24W2G5	26-24	.14-.25	Gold 5μ"
SP24W2G10	SS24W2G10	26-24	.14-.25	Gold 10μ"
SP24W2G15	SS24W2G15	26-24	.14-.25	Gold 15μ"
SP24W2G30	SS24W2G30	26-24	.14-.25	Gold 30μ"
SP28W2F	SS28W2F	30-28	.05-.08	Gold Flash
SP28W2G5	SS28W2G5	30-28	.05-.08	Gold 5μ"
SP28W2G10	SS28W2G10	30-28	.05-.08	Gold 10μ"
SP28W2G15	SS28W2G15	30-28	.05-.08	Gold 15μ"
SP28W2G30	SS28W2G30	30-28	.05-.08	Gold 30μ"

Tools



STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



RTS716N19P03



RTS716N19S03



RTS716N19PHEC03

Square Flange Receptacles



RTS016N19P03



RTS016N19S03



RTS016N19PHEC03



RTS016N19SHEC03

Plug



RTS6BS16N19P03



RTS6BS16N19S03



RTS6BS16N19PHEC03



RTS6BS16N19SHEC03

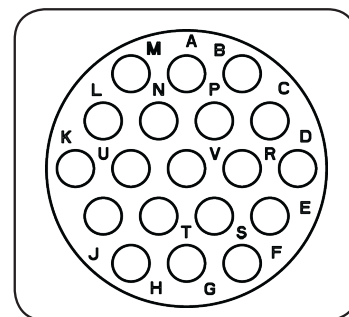
SEE TABLE ON NEXT PAGE FOR PART DETAILS

CONTACTS SOLD SEPARATELY SEE PAGE 172

Shell Size: 16 Number of Contacts: 19 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

eco|mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +125°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers - Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS716N19P03	Receptacle, jam nut, 19 positions, size 16, pin contact, silicone rubber seal	-40 to 125°C	1
RTS716N19PHE03	Receptacle, jam nut, 19 positions, size 16, pin contact, silicone rubber seal, endcap	-40 to 125°C	3
RTS716N19S03	Receptacle, jam nut, 19 positions, size 16, socket contact, silicone rubber seal	-40 to 125°C	2
RTS016N19P03	Receptacle, square flange, 19 positions, size 16, pin contact, silicone rubber seal	-40 to 125°C	5
RTS016N19PHEC03	Receptacle, square flange, 19 positions, size 16, pin contact, silicone rubber seal, endcap	-40 to 125°C	7
RTS016N19S03	Receptacle, square flange, 19 positions, size 16, socket contact, silicone rubber seal	-40 to 125°C	6
RTS016N19SHEC03	Receptacle, square flange, 19 positions, size 16, socket contact, silicone rubber seal, endcap	-40 to 125°C	8

Connector Part Numbers - Plugs

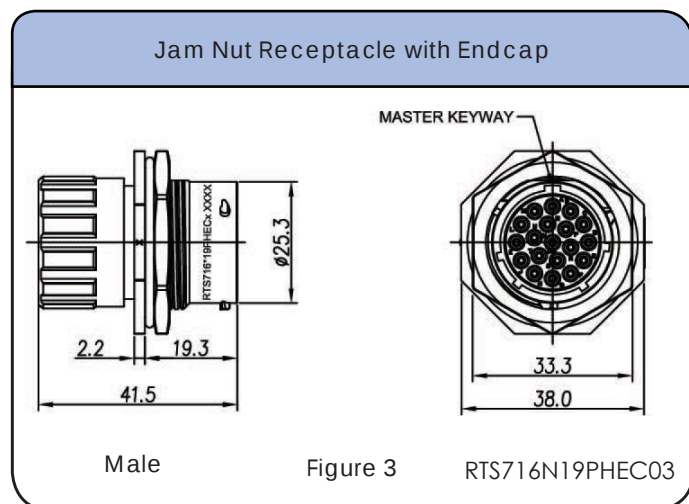
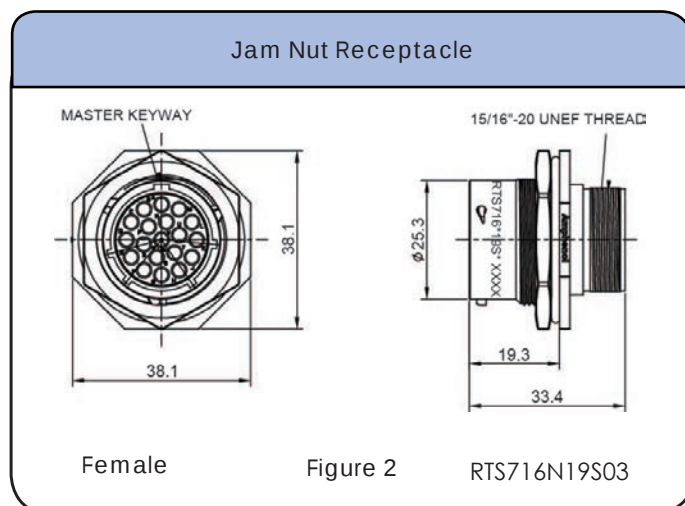
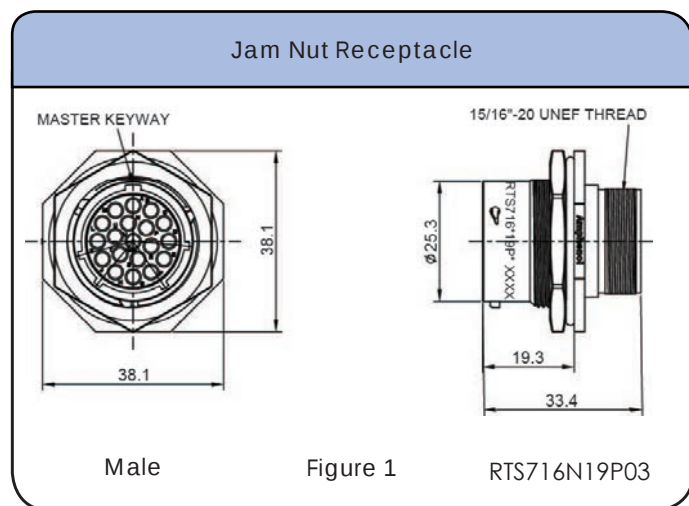
PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS16N19P03	Straight plug with cord grip, 19 positions, size 16, pin contact, silicone rubber seal	-40 to 125°C	9
RTS6BS16N19PHEC03	Straight plug with endcap, 19 positions, size 16, pin contact	-40 to 125°C	11
RTS6BS16N19S03	Straight plug with cord grip, 19 positions, size 16, socket contact, silicone rubber seal	-40 to 125°C	10
RTS6BS16N19SHEC03	Straight plug with endcap, 19 positions, size 16, socket contact	-40 to 125°C	12

Contacts supplied separately see page 172

Shell Size: 16 Number of Contacts: 19
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 16

Dimensions Jam Nut Receptacles

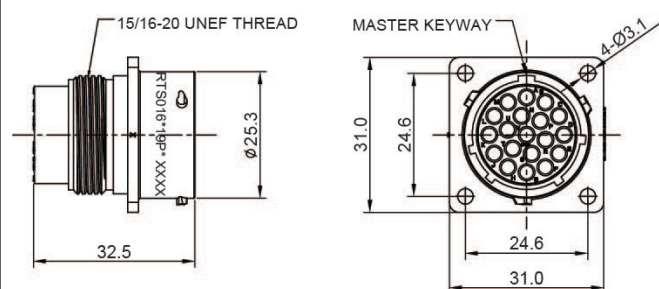


Shell Size: 16 Number of Contacts: 19 Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 16

Dimensions Square Flange Receptacles

Square Flange Receptacle

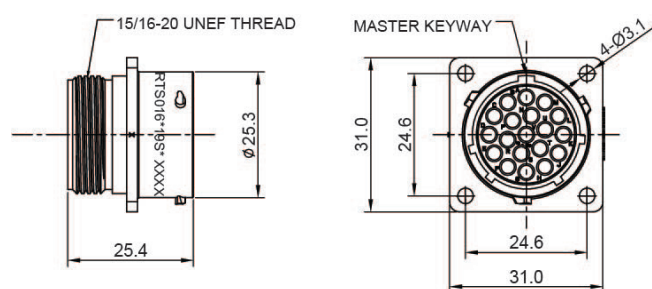


Male

Figure 5

RTS016N19P03

Square Flange Receptacle

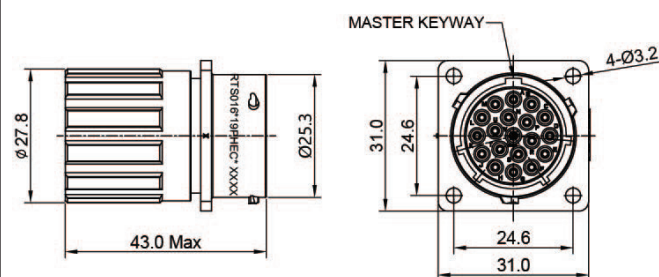


Female

Figure 6

RTS016N19S03

Square Flange Receptacle with Endcap

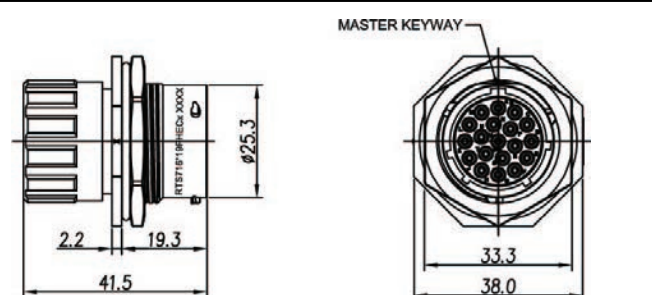


Male

Figure 7

RTS016N19PHEC03

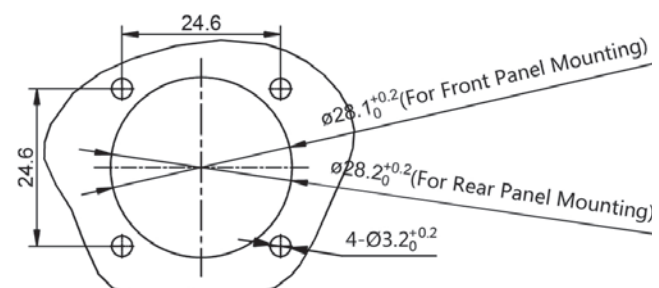
Square Flange Receptacle



Female

Figure 8

RTS016N19SHEC03

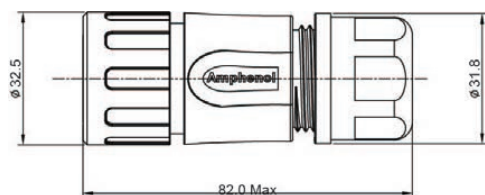


Shell Size: 16 Number of Contacts: 19
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 16

Dimensions Plugs

Plug

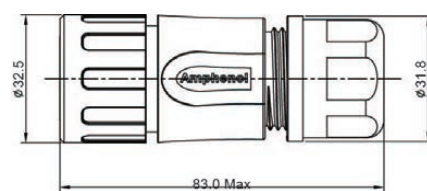


Male

Figure 8

RTS6BS16N19P03

Plug

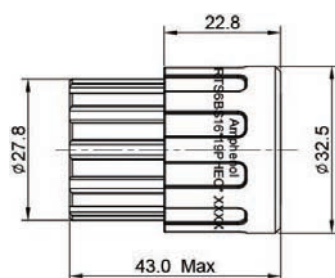


Female

Figure 9

RTS6BS16N19S03

Plug with Endcap

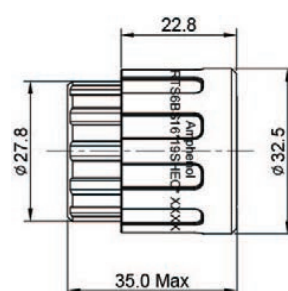


Male

Figure 10

RTS6BS16N19PHEC03

Plug with Endcap



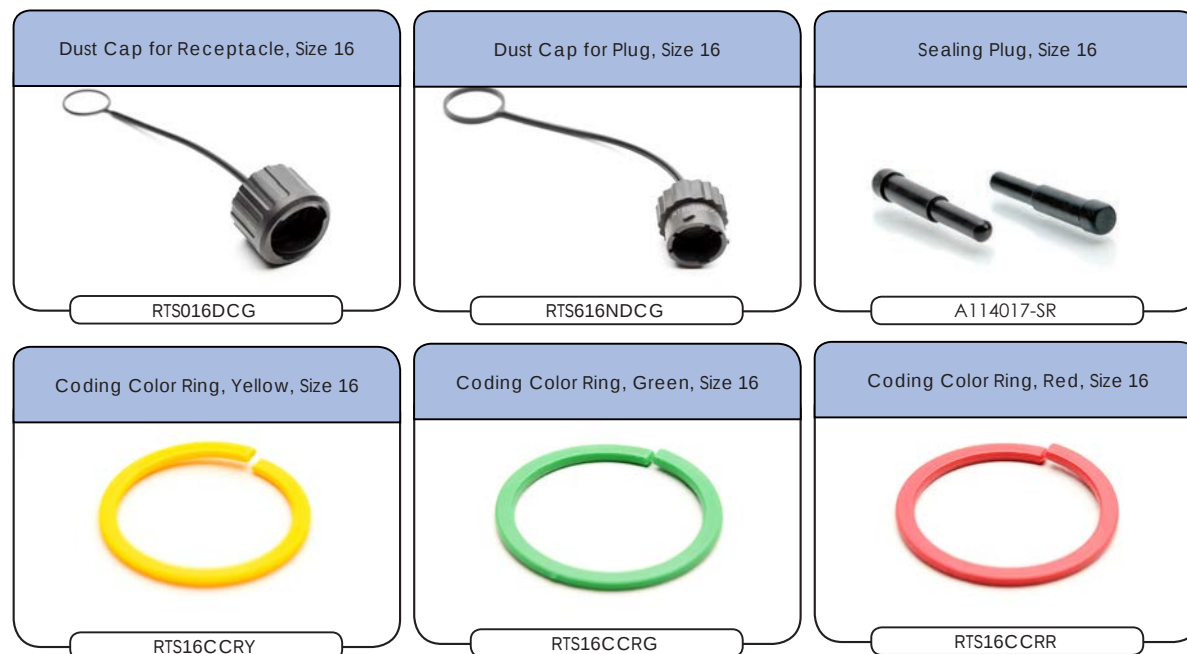
Female

Figure 11

RTS6BS16N19SHEC03

Shell Size: 16 Number of Contacts: 19 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

Accessories



Shell Size: 16 Number of Contacts: 19 Contact Size: 16
 Sealing: IP67 / IP69k Salt Spray: 500h

Contacts



Crimp Contacts, Machined

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
MP14M23F	MS14M23F	14	2.0-2.5	Gold Flash
MP14M23G5	MS14M23G5	14	2.0-2.5	Gold 5μ"
MP14M23G10	MS14M23G10	14	2.0-2.5	Gold 10μ"
MP14M23G15	MS14M23G15	14	2.0-2.5	Gold 15μ"
MP14M23G30	MS14M23G30	14	2.0-2.5	Gold 30μ"
MP16M23F	MS16M23F	18-16	.75-1.5	Gold Flash
MP16M23G5	MS16M23G5	18-16	.75-1.5	Gold 5μ"
MP16M23G10	MS16M23G10	18-16	.75-1.5	Gold 10μ"
MP16M23G15	MS16M23G15	18-16	.75-1.5	Gold 15μ"
MP16M23G30	MS16M23G30	18-16	.75-1.5	Gold 30μ"
MP20M23F	MS20M23F	22-20	.34-.50	Gold Flash
MP20M23G5	MS20M23G5	22-20	.34-.50	Gold 5μ"
MP20M23G10	MS20M23G10	22-20	.34-.50	Gold 10μ"
MP20M23G15	MS20M23G15	22-20	.34-.50	Gold 15μ"
MP20M23G30	MS20M23G30	22-20	.34-.50	Gold 30μ"
MP24M23F	MS24M23F	26-24	.14-.25	Gold Flash
MP24M23G5	MS24M23G5	26-24	.14-.25	Gold 5μ"
MP24M23G10	MS24M23G10	26-24	.14-.25	Gold 10μ"
MP24M23G15	MS24M23G15	26-24	.14-.25	Gold 15μ"
MP24M23G30	MS24M23G30	26-24	.14-.25	Gold 30μ"

Tools

Contact Extraction Tool,
#16 (Ø 1.6) Contact



QXRT16

Hand Crimp Tool for
Machined Contacts



MX-3959

Pneumatic Crimp Tool for
Machined Contacts



MX-3960

Shell Size: 16 Number of Contacts: 19 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

Contacts (con't)



Stamped & Formed Contacts

Crimp Contacts, Stamped & Formed

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
SP14M2F	SS14M2F	14	2.0-2.5	Gold Flash
SP14M2G5	SS14M2G5	14	2.0-2.5	Gold 5μ"
SP14M2G10	SS14M2G10	14	2.0-2.5	Gold 10μ"
SP14M2G15	SS14M2G15	14	2.0-2.5	Gold 15μ"
SP14M2G30	SS14M2G30	14	2.0-2.5	Gold 30μ"
SP16M2F	SS16M2F	18-16	.75-1.5	Gold Flash
SP16M2G5	SS16M2G5	18-16	.75-1.5	Gold 5μ"
SP16M2G10	SS16M2G10	18-16	.75-1.5	Gold 10μ"
SP16M2G15	SS16M2G15	18-16	.75-1.5	Gold 15μ"
SP16M2G30	SS16M2G30	18-16	.75-1.5	Gold 30μ"
SP20M2F	SS20M2F	22-20	.34-.50	Gold Flash
SP20M2G5	SS20M2G5	22-20	.34-.50	Gold 5μ"
SP20M2G10	SS20M2G10	22-20	.34-.50	Gold 10μ"
SP20M2G15	SS20M2G15	22-20	.34-.50	Gold 15μ"
SP20M2G30	SS20M1G30	22-20	.34-.50	Gold 30μ"
SP24M2F	SS24M2F	26-24	.14-.25	Gold Flash
SP24M2G5	SS24M2G5	26-24	.14-.25	Gold 5μ"
SP24M2G10	SS24M2G10	26-24	.14-.25	Gold 10μ"
SP24M2G15	SS24M2G15	26-24	.14-.25	Gold 15μ"
SP24M2G30	SS24M2G30	26-24	.14-.25	Gold 30μ"

Tools

Contact Extraction Tool,
#16 (Ø 1.6) Contact



QXRT16

Hand Tool, Stamped & Formed
Contact, Size 16, 20-14 AWG



MFX-3954

Crimp Die for Stamped &
Formed Contact



MFX-3957

STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



RTS718N23P03



RTS718N23S03



RTS718N23PHEC03

Square Flange Receptacles



RTS018N23P03



RTS018N23S03



RTS018N23PHEC03



RTS018N23SHEC03

Plug



RTS6BS18N23P03



RTS6BS18N23S03



RTS6BS18N23PHEC03



RTS6BS18N23SHEC03

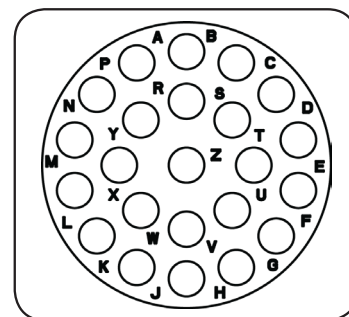
SEE TABLE ON NEXT PAGE FOR PART DETAILS

CONTACTS SOLD SEPARATELY SEE PAGE 180

Shell Size: 18 Number of Contacts: 23 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

eco|mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +125°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers - Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS718N23P03	Receptacle, jam nut, 23 positions, size 18, pin contact, silicone rubber seal	-40 to 125°C	1
RTS718N23PHEC03	Receptacle, jam nut, 23 positions, size 18, pin contact, silicone rubber seal, endcap	-40 to 125°C	3
RTS718N23S03	Receptacle, jam nut, 23 positions, size 18, socket contact, silicone rubber seal, endcap	-40 to 125°C	2
RTS018N23P03	Receptacle, square flange, 23 positions, size 18, pin contact, silicone rubber seal	-40 to 125°C	4
RTS018N23PHEC03	Receptacle, square flange, 23 positions, size 18, pin contact, silicone rubber seal, endcap	-40 to 125°C	6
RTS018N23S03	Receptacle, square flange, 23 positions, size 18, socket contact, silicone rubber seal	-40 to 125°C	5
RTS018N23SHEC03	Receptacle, square flange, 23 positions, size 18, socket contact, silicone rubber seal, with endcap	-40 to 125°C	7

Connector Part Numbers - Plugs

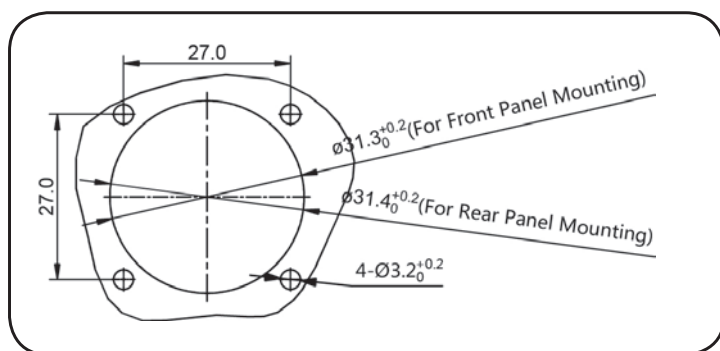
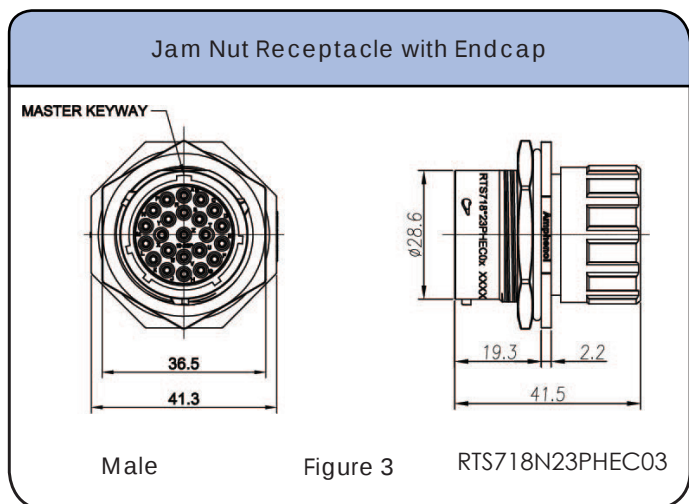
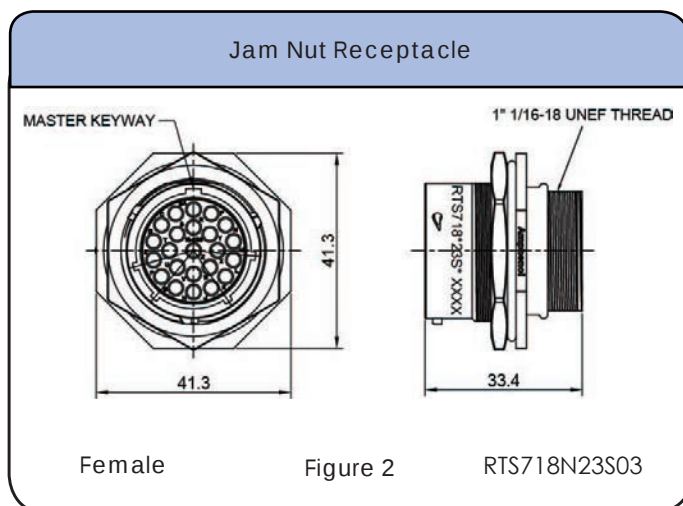
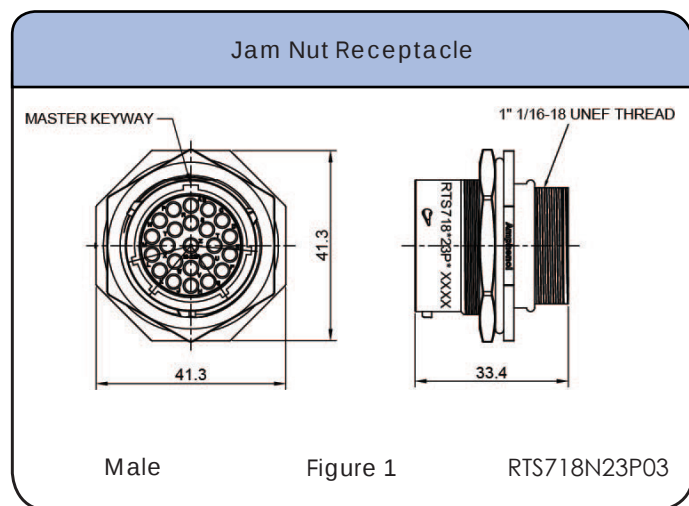
PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS18N23P03	Straight plug with cord grip, 23 positions, size 18, pin contact, silicone rubber seal	-40 to 125°C	8
RTS6BS18N23PHEC03	Straight plug with endcap, 23 positions, size 18, pin contact, endcap	-40 to 125°C	10
RTS6BS18N23S03	Straight plug with cord grip, 23 positions, size 18, socket contact, silicone rubber seal	-40 to 125°C	9
RTS6BS18N23SHEC03	Straight plug with endcap, 23 positions, size 18, socket contact, endcap	-40 to 125°C	11

Contacts supplied separately see page 180

Shell Size: 18 Number of Contacts: 23
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 16

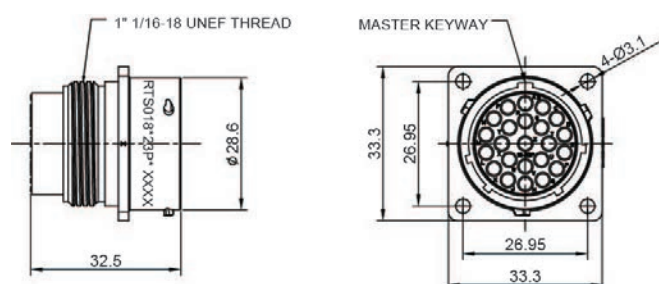
Dimensions Jam Nut



Shell Size: 18 Number of Contacts: 23 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

Dimensions Square Flange Receptacles

Square Flange Receptacle

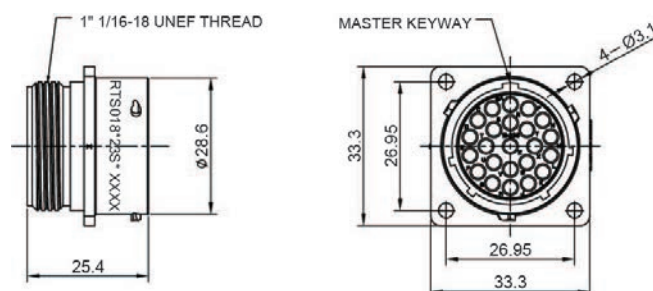


Male

Figure 4

RTS018N23P03

Square Flange Receptacle

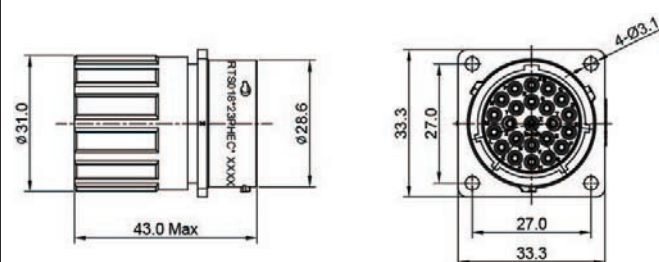


Female

Figure 5

RTS018N23S03

Square Flange Receptacle with Endcap

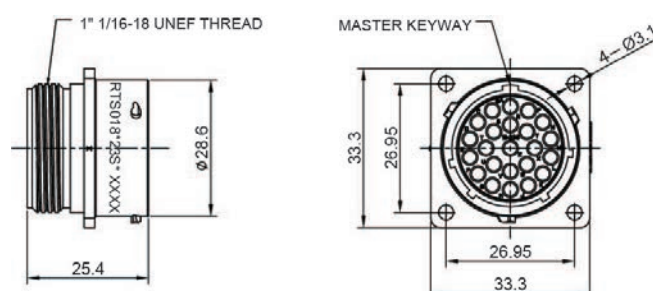


Male

Figure 6

RTS018N23PHEC03

Square Flange Receptacle with Endcap



Female

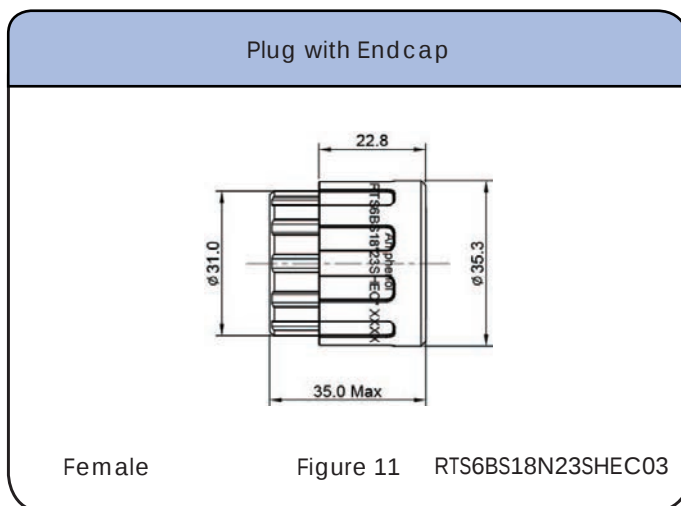
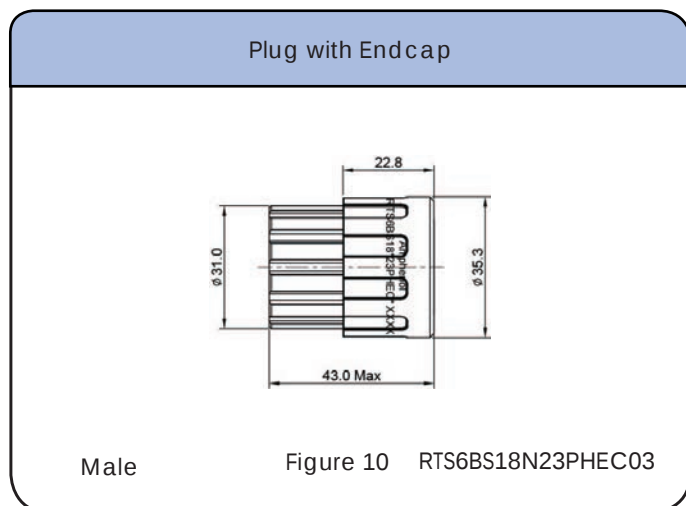
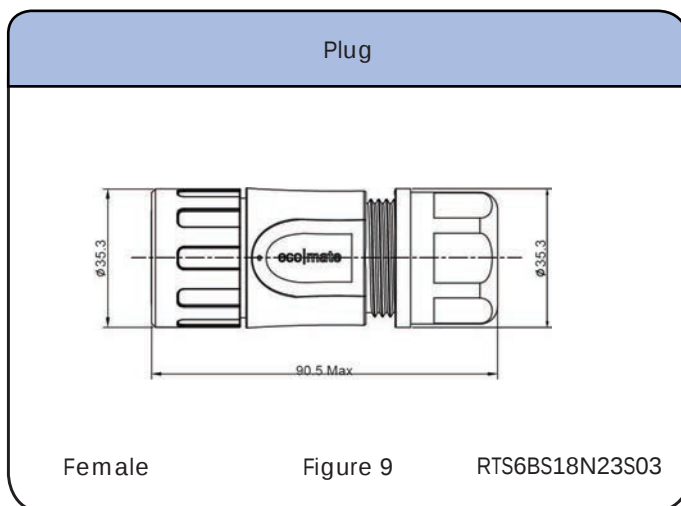
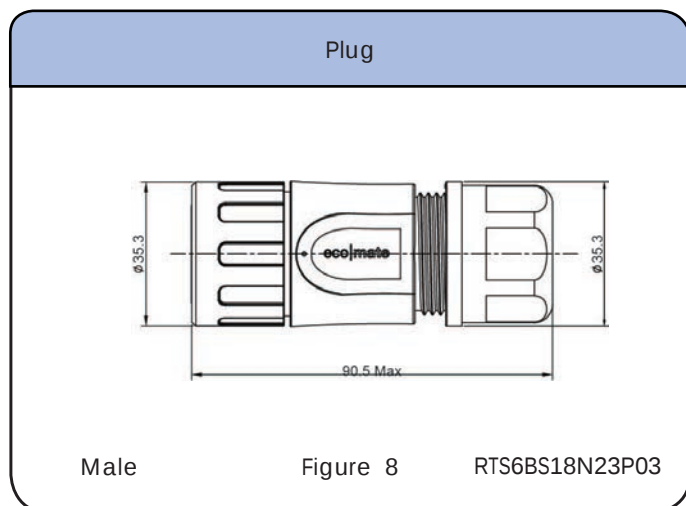
Figure 7

RTS018N23SHEC03

Shell Size: 18 Number of Contacts: 23
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 16

Dimensions Plugs



Shell Size: 18 Number of Contacts: 23 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

Accessories

Dust Cap for Plug, Size 18  RTS618NDCG	Dust Cap for Receptacle, Size 18  RTS018DCG	Sealing Plug, Size 16  A114017-SR
Coding Color Ring, Yellow, Size 18  RTS18CCRY	Coding Color Ring, Green, Size 18  RTS18CCRG	Coding Color Ring, Red, Size 18  RTS18CCRR

Shell Size: 18 Number of Contacts: 23 Contact Size: 16
 Sealing: IP67 / IP69k Salt Spray: 500h

Contacts



Crimp Contacts, Machined

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
MP14M23F	MS14M23F	14	2.0-2.5	Gold Flash
MP14M23G5	MS14M23G5	14	2.0-2.5	Gold 5μ"
MP14M23G10	MS14M23G10	14	2.0-2.5	Gold 10μ"
MP14M23G15	MS14M23G15	14	2.0-2.5	Gold 15μ"
MP14M23G30	MS14M23G30	14	2.0-2.5	Gold 30μ"
MP16M23F	MS16M23F	18-16	.75-1.5	Gold Flash
MP16M23G5	MS16M23G5	18-16	.75-1.5	Gold 5μ"
MP16M23G10	MS16M23G10	18-16	.75-1.5	Gold 10μ"
MP16M23G15	MS16M23G15	18-16	.75-1.5	Gold 15μ"
MP16M23G30	MS16M23G30	18-16	.75-1.5	Gold 30μ"
MP20M23F	MS20M23F	22-20	.34-.50	Gold Flash
MP20M23G5	MS20M23G5	22-20	.34-.50	Gold 5μ"
MP20M23G10	MS20M23G10	22-20	.34-.50	Gold 10μ"
MP20M23G15	MS20M23G15	22-20	.34-.50	Gold 15μ"
MP20M23G30	MS20M23G30	22-20	.34-.50	Gold 30μ"
MP24M23F	MS24M23F	26-24	.14-.25	Gold Flash
MP24M23G5	MS24M23G5	26-24	.14-.25	Gold 5μ"
MP24M23G10	MS24M23G10	26-24	.14-.25	Gold 10μ"
MP24M23G15	MS24M23G15	26-24	.14-.25	Gold 15μ"
MP24M23G30	MS24M23G30	26-24	.14-.25	Gold 30μ"

Tools

Contact Extraction Tool,
#16 (Ø 1.6) Contact



QXRT16

Hand Crimp Tool for
Machined Contacts



MX-3959

Pneumatic Crimp Tool for
Machined Contacts



MX-3960

Shell Size: 18 Number of Contacts: 23 Contact Size: 16
Sealing: IP67 / IP69k Salt Spray: 500h

Contacts (con't)



Stamped & Formed Contacts

Crimp Contacts, Stamped & Formed

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
SP14M2F	SS14M2F	14	2.0-2.5	Gold Flash
SP14M2G5	SS14M2G5	14	2.0-2.5	Gold 5μ"
SP14M2G10	SS14M2G10	14	2.0-2.5	Gold 10μ"
SP14M2G15	SS14M2G15	14	2.0-2.5	Gold 15μ"
SP14M2G30	SS14M2G30	14	2.0-2.5	Gold 30μ"
SP16M2F	SS16M2F	18-16	.75-1.5	Gold Flash
SP16M2G5	SS16M2G5	18-16	.75-1.5	Gold 5μ"
SP16M2G10	SS16M2G10	18-16	.75-1.5	Gold 10μ"
SP16M2G15	SS16M2G15	18-16	.75-1.5	Gold 15μ"
SP16M2G30	SS16M2G30	18-16	.75-1.5	Gold 30μ"
SP20M2F	SS20M2F	22-20	.34-.50	Gold Flash
SP20M2G5	SS20M2G5	22-20	.34-.50	Gold 5μ"
SP20M2G10	SS20M2G10	22-20	.34-.50	Gold 10μ"
SP20M2G15	SS20M2G15	22-20	.34-.50	Gold 15μ"
SP20M2G30	SS20M1G30	22-20	.34-.50	Gold 30μ"
SP24M2F	SS24M2F	26-24	.14-.25	Gold Flash
SP24M2G5	SS24M2G5	26-24	.14-.25	Gold 5μ"
SP24M2G10	SS24M2G10	26-24	.14-.25	Gold 10μ"
SP24M2G15	SS24M2G15	26-24	.14-.25	Gold 15μ"
SP24M2G30	SS24M2G30	26-24	.14-.25	Gold 30μ"

Tools

Contact Extraction Tool,
#16 (Ø 1.6) Contact



QXRT16

Hand Tool, Stamped & Formed
Contact, Size 16, 20-14 AWG



MFX-3954

Crimp Die for Stamped &
Formed Contact



MFX-3957

STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



RTS716N26P03



RTS716N26S03



RTS716N26PHEC03

Square Flange Receptacles



RTS016N26P03



RTS016N26S03



RTS016N26PHEC03



RTS016N26SHEC03

Plug



RTS6BS16N26P03



RTS6BS16N26S03



RTS6BS16N26PHEC03

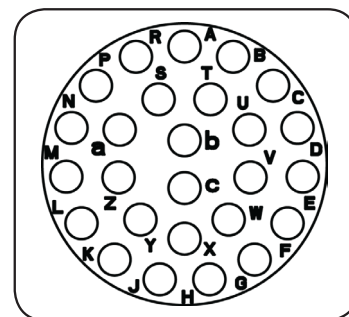


RTS6BS16N26SHEC03

Shell Size: 16 Number of Contacts: 26 Contact Size: 20
Sealing: IP67 / IP69k Salt Spray: 500h

eco|mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +125°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers - Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS716N26P03	Receptacle, jam nut, 26 positions, size 16, pin contact, silicone rubber seal	-40 to 125°C	1
RTS716N26PHEC03	Receptacle, jam nut, 26 positions, size 16, pin contact, silicone rubber seal, endcap	-40 to 125°C	3
RTS716N26S03	Receptacle, jam nut, 26 positions, size 16, for socket contact, silicone rubber seal	-40 to 125°C	2
RTS016N26P03	Receptacle, square flange, 26 positions, size 16, pin contact, silicone rubber seal	-40 to 125°C	4
RTS016N26PHEC03	Receptacle, square flange, 26 positions, size 16, pin contact, silicone rubber seal, endcap	-40 to 125°C	6
RTS016N26S03	Receptacle, square flange, 26 positions, size 16, for socket contact, silicone rubber seal	-40 to 125°C	5
RTS016N26SHEC03	Receptacle, square flange, 26 positions, size 16, for socket contact, silicone rubber seal, with end cap	-40 to 125°C	7

Connector Part Numbers - Plugs

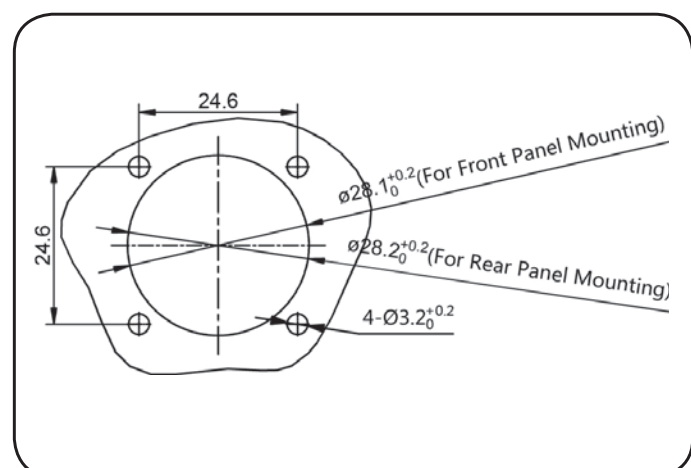
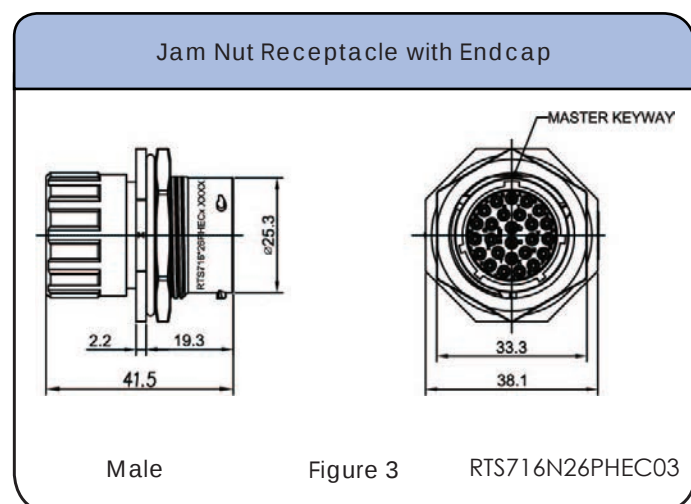
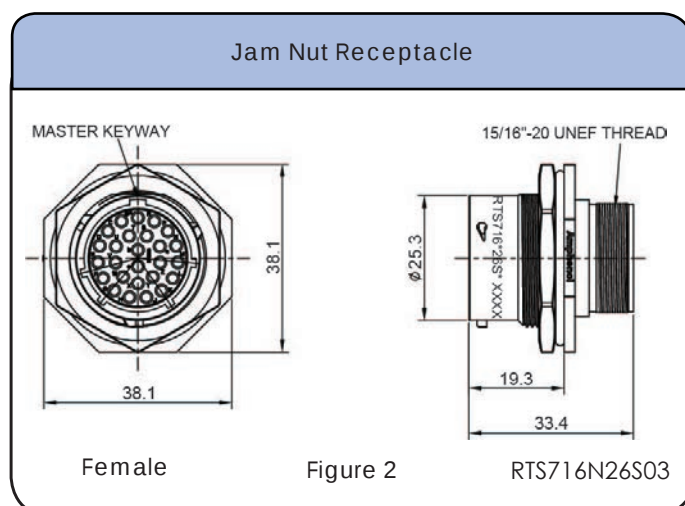
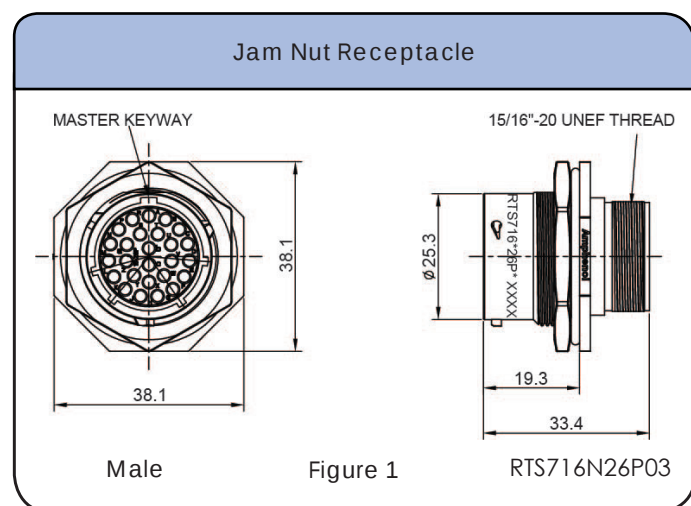
PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS16N26P03	Straight plug with cord grip, 26 positions, size 16, pin contact, silicone rubber seal	-40 to 125°C	8
RTS6BS16N26PHEC03	Straight plug with end cap, 26 positions, size 16, pin contact, silicone rubber seal	-40 to 125°C	10
RTS6BS16N26S03	Straight plug with cord grip, 26 positions, size 16, socket contact, silicone rubber seal	-40 to 125°C	9
RTS6BS16N26SHEC03	Straight plug with end cap, 26 positions, size 16, socket contact, silicone rubber seal	-40 to 125°C	11

Contacts supplied separately see page 188

Shell Size: 16 Number of Contacts: 26
Sealing: IP67 / IP69k Salt Spray: 500h

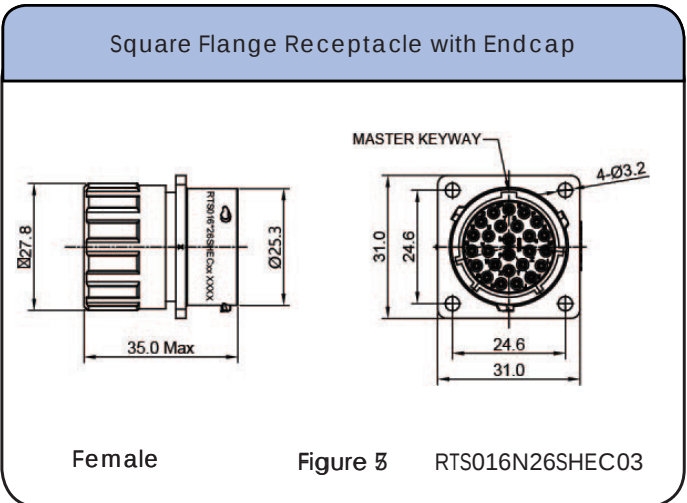
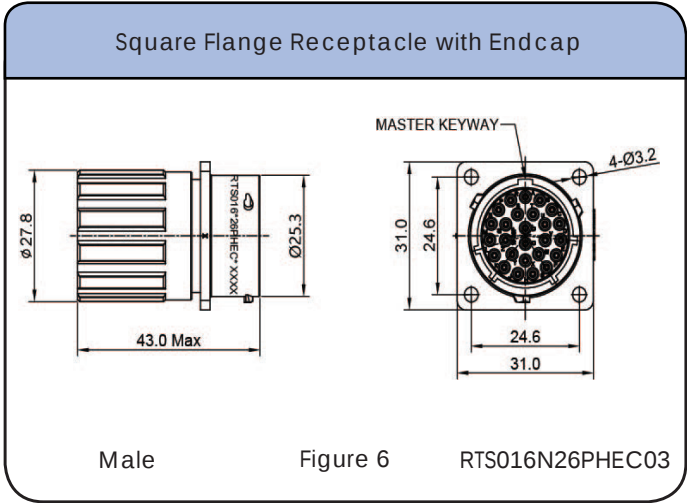
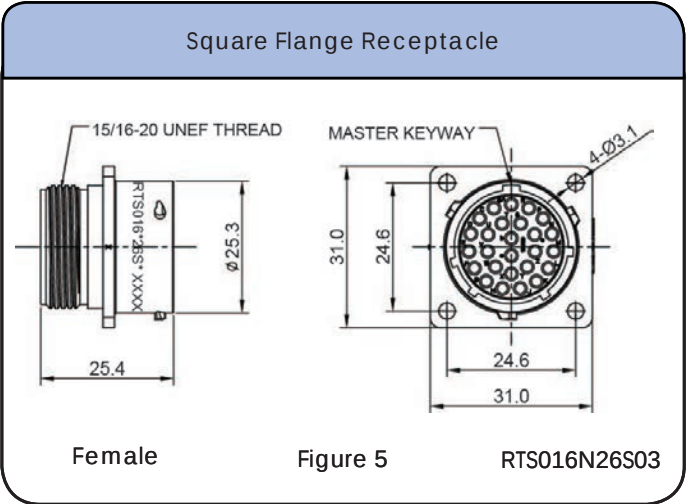
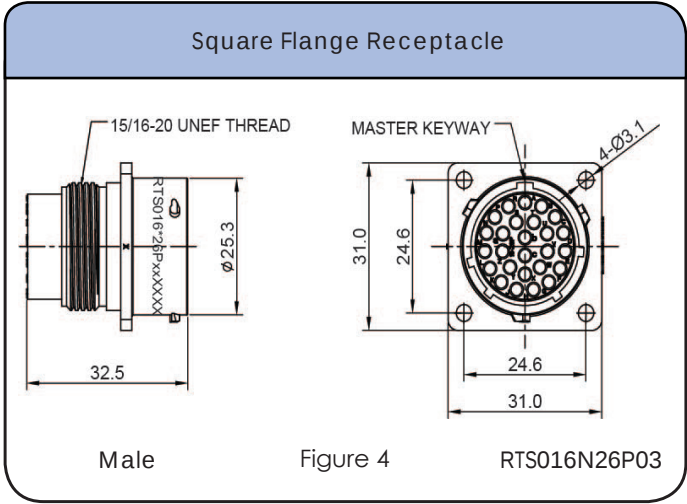
Contact Size: 20

Dimensions Jam Nut



Shell Size: 16 Number of Contacts: 26 Contact Size: 20
Sealing: IP67 / IP69k Salt Spray: 500h

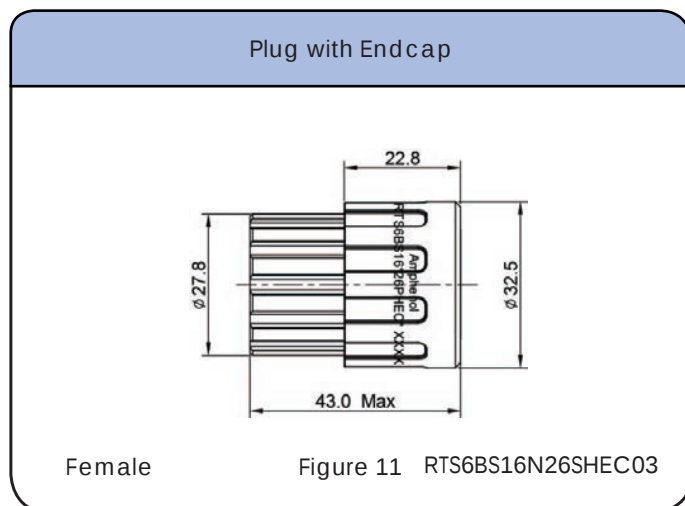
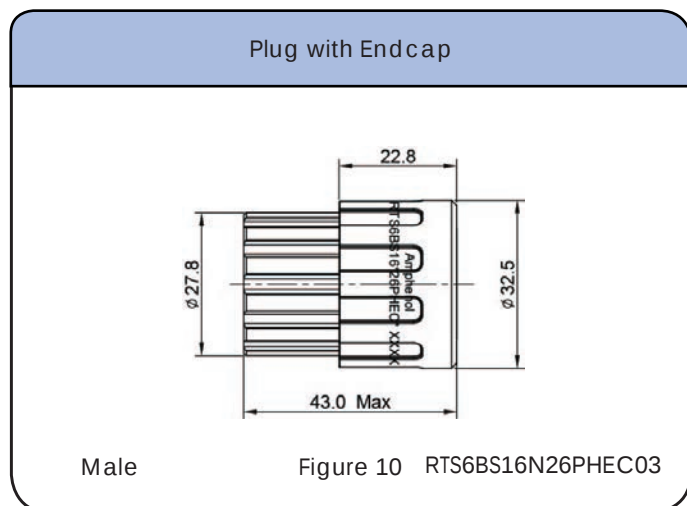
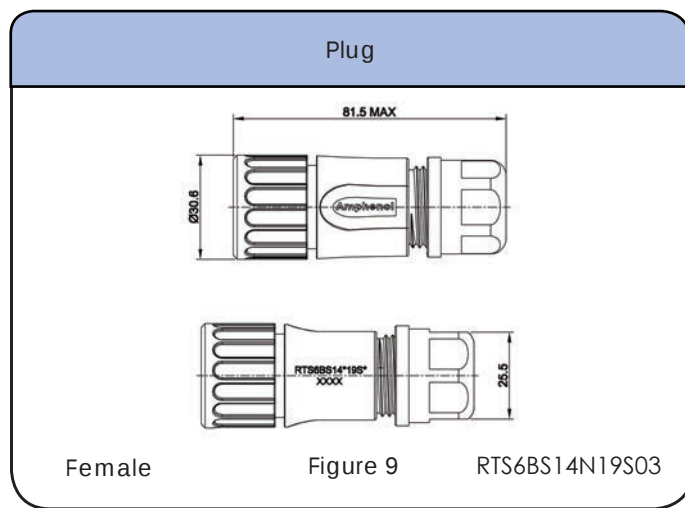
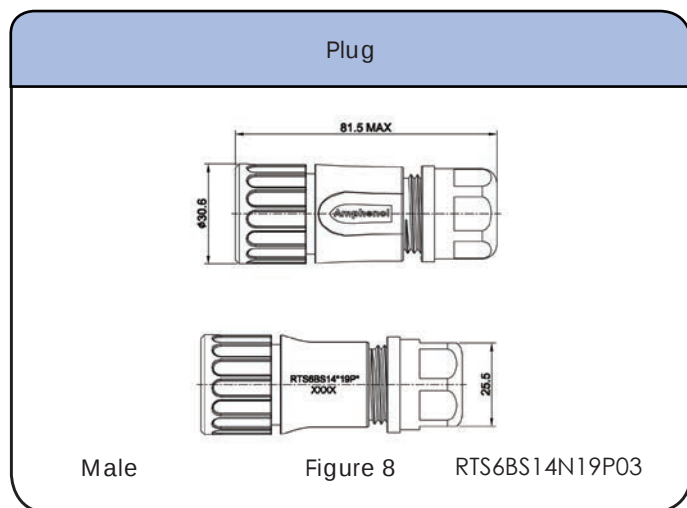
Dimensions Square Flange Receptacles



Shell Size: 16 Number of Contacts: 26
Sealing: IP67 / IP69k Salt Spray: 500h

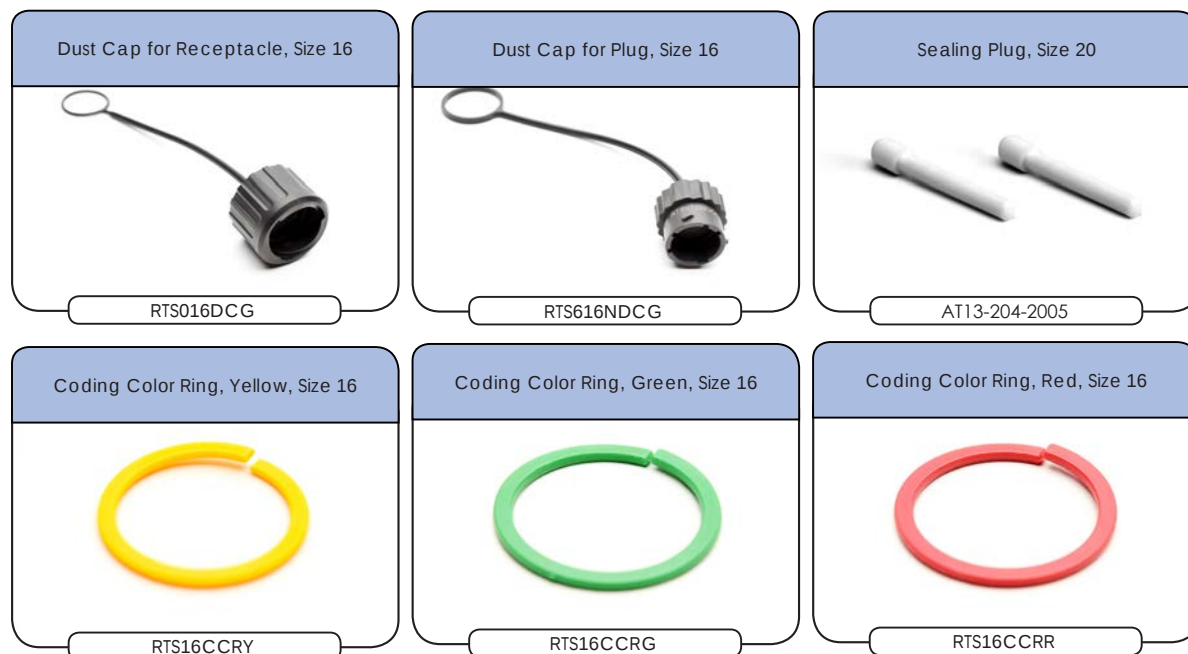
Contact Size: 20

Dimensions Plugs



Shell Size: 16 Number of Contacts: 26 Contact Size: 20
Sealing: IP67 / IP69k Salt Spray: 500h

Accessories



Shell Size: 16 **Number of Contacts: 26** **Contact Size: 20**
Sealing: IP67 / IP69k **Salt Spray: 500h**

Contacts



Crimp Contacts, Machined

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
MP20W23F	MS20W23F	22-20	.34-.50	Gold Flash
MP20W23G5	MS20W23G5	22-20	.34-.50	Gold 5μ"
MP20W23G10	MS20W23G10	22-20	.34-.50	Gold 10μ"
MP20W23G15	MS20W23G15	22-20	.34-.50	Gold 15μ"
MP20W23G30	MS20W23G30	22-20	.34-.50	Gold 30μ"
MP24W23F	MS24W23F	26-24	.13-.25	Gold Flash
MP24W23G5	MS24W23G5	26-24	.13-.25	Gold 5μ"
MP24W23G10	MS24W23G10	26-24	.13-.25	Gold 10μ"
MP24W23G15	MS24W23G15	26-24	.13-.25	Gold 15μ"
MP24W23G30	MS24W23G30	26-24	.13-.25	Gold 30μ"
MP28W23F	MS28W23F	30-28	.05-.08	Gold Flash
MP28W23G5	MS28W23G5	30-28	.05-.08	Gold 5μ"
MP28W23G10	MS28W23G10	30-28	.05-.08	Gold 10μ"
MP28W23G15	MS28W23G15	30-28	.05-.08	Gold 15μ"
MP28W23G30	MS28W23G30	30-28	.05-.08	Gold 30μ"

Tools

Contact Extraction Tool,
#20 (Ø 1.6) Contact



QXRT20

Hand Crimp Tool for
Machined Contacts



MFX-3959

Pneumatic Crimp Tool for
Machined Contact



MFX-3957

Shell Size: 16 Number of Contacts: 26 Contact Size: 20
Sealing: IP67 / IP69k Salt Spray: 500h

Contacts (con't)



Stamped & Formed Contacts

Crimp Contacts, Stamped & Formed

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
SP20W2F	SS20W2F	22-20	.34-.50	Gold Flash
SP20W2G5	SS20W2G5	22-20	.34-.50	Gold 5μ"
SP20W2G10	SS20W2G10	22-20	.34-.50	Gold 10μ"
SP20W2G15	SS20W2G15	22-20	.34-.50	Gold 15μ"
SP20W2G30	SS20W2G30	22-20	.34-.50	Gold 30μ"
SP24W2F	SS24W2F	26-24	.14-.25	Gold Flash
SP24W2G5	SS24W2G5	26-24	.14-.25	Gold 5μ"
SP24W2G10	SS24W2G10	26-24	.14-.25	Gold 10μ"
SP24W2G15	SS24W2G15	26-24	.14-.25	Gold 15μ"
SP24W2G30	SS24W2G30	26-24	.14-.25	Gold 30μ"
SP28W2F	SS28W2F	30-28	.05-.08	Gold Flash
SP28W2G5	SS28W2G5	30-28	.05-.08	Gold 5μ"
SP28W2G10	SS28W2G10	30-28	.05-.08	Gold 10μ"
SP28W2G15	SS28W2G15	30-28	.05-.08	Gold 15μ"
SP28W2G30	SS28W2G30	30-28	.05-.08	Gold 30μ"

Tools



STEP 1
Choose Receptacle Style

STEP 2
Choose Plug Style

Jam Nut Receptacles



RTS718N32P03



RTS718N32S03



RTS718N32PHEC03

Square Flange Receptacles



RTS018N32P03



RTS018N32S03



RTS018N32PHEC03



RTS018N32SHEC03

Plug



RTS6BS18N32P03



RTS6BS18N32S03



RTS6BS18N32PHEC03



RTS6BS18N32SHEC03

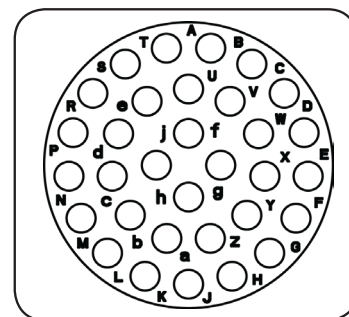
SEE TABLE ON NEXT PAGE FOR PART DETAILS

CONTACTS SOLD SEPARATELY SEE PAGE 196

Shell Size: 18 Number of Contacts: 32 Contact Size: 20
Sealing: IP67 / IP69k Salt Spray: 500h

eco|mate® Aquarius Standard Products

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +125°C
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- UL ECBT2 Certified*



Insert Arrangement
Pin (Male) Faceview

Connector Part Numbers - Receptacles

PART NO#	Description	Temperature Range	Figure Drawing
RTS718N32P03	Receptacle, jam nut, 32 positions, size 18, pin contact, silicone rubber seal	-40 to 125°C	1
RTS718N32PHEC03	Receptacle, jam nut, 32 positions, size 18, pin contact, silicone rubber seal, endcap	-40 to 125°C	3
RTS718N32S03	Receptacle, jam nut, 32 positions, size 18, for socket contact, silicone rubber seal	-40 to 125°C	2
RTS018N32P03	Receptacle, square flange, 32 positions, size 18, pin contact, silicone rubber seal	-40 to 125°C	4
RTS018N32PHEC03	Receptacle, square flange, 32 positions, size 18, pin contact, silicone rubber seal, endcap	-40 to 125°C	6
RTS018N32S03	Receptacle, square flange, 32 positions, size 18, for socket contact, silicone rubber seal	-40 to 125°C	5
RTS018N32SHEC03	Receptacle, square flange, 32 positions, size 18, for socket contact, silicone rubber seal, with endcap	-40 to 125°C	7

Connector Part Numbers - Plugs

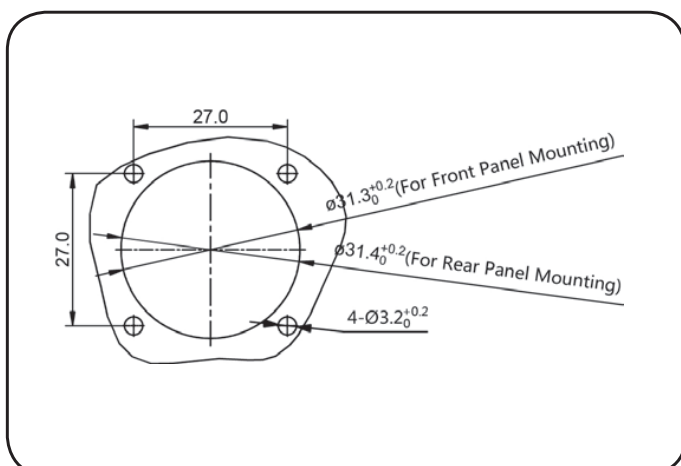
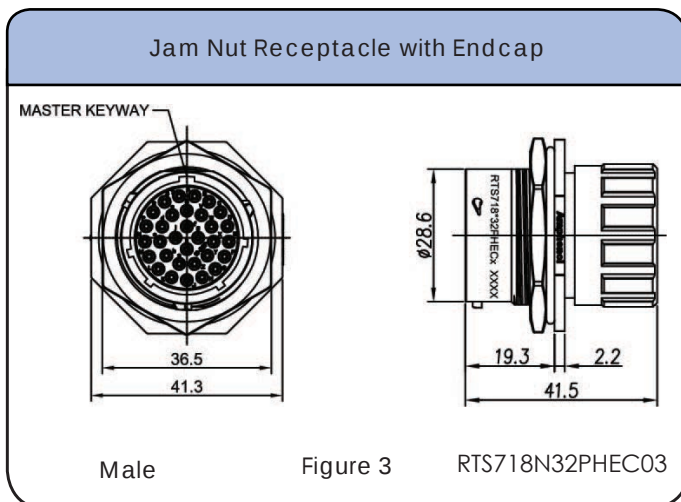
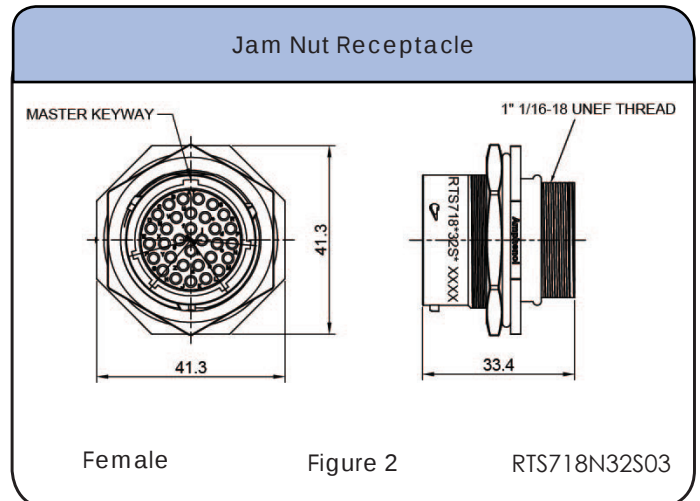
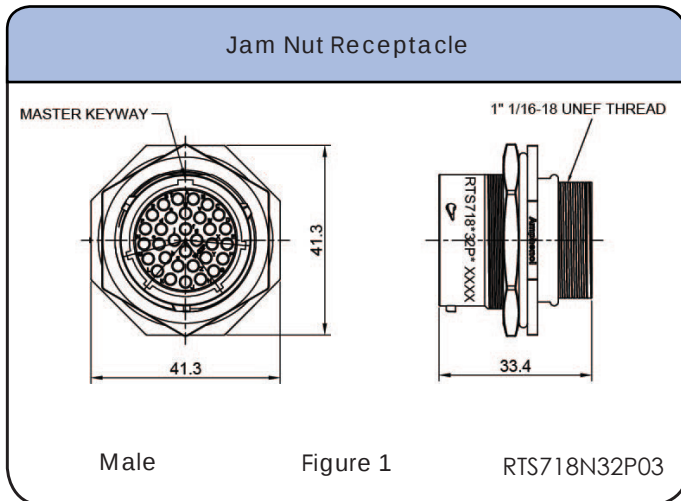
PART NO#	Description	Temperature Range	Figure Drawing
RTS6BS18N32P03	Straight plug with cord grip, 32 positions, size 18, pin contact, silicone rubber seal	-40 to 125°C	8
RTS6BS18N32PHEC03	Straight plug with end cap, 32 positions, size 18, pin contact, silicone rubber seal	-40 to 125°C	10
RTS6BS18N32S03	Straight plug with cord grip, 32 positions, size 18, socket contact, silicone rubber seal	-40 to 125°C	9
RTS6BS18N32SHEC03	Straight plug with end cap, 32 positions, size 18, socket contact, silicone rubber seal	-40 to 125°C	11

Contacts supplied separately see page 196

Shell Size: 18 Number of Contacts: 32
 Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 20

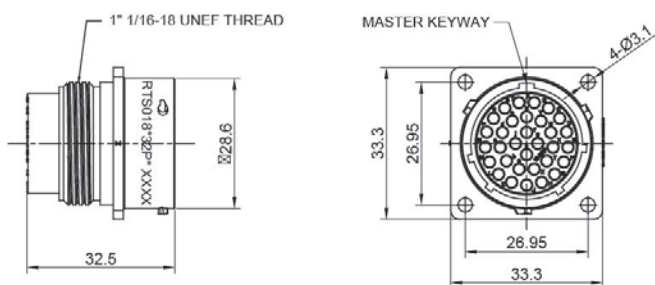
Dimensions Jam Nut



Shell Size: 18 Number of Contacts: 32 Contact Size: 20
 Sealing: IP67 / IP69k Salt Spray: 500h

Dimensions Square Flange Receptacles

Square Flange Receptacle

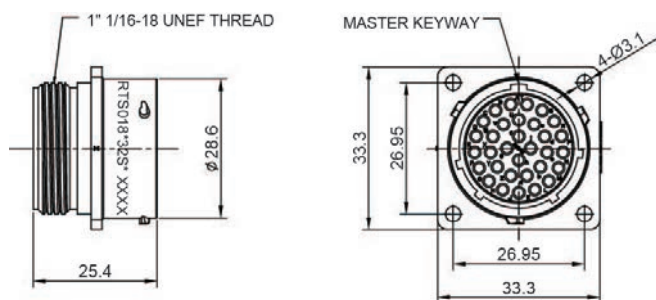


Male

Figure 4

RTS018N32P03

Square Flange Receptacle

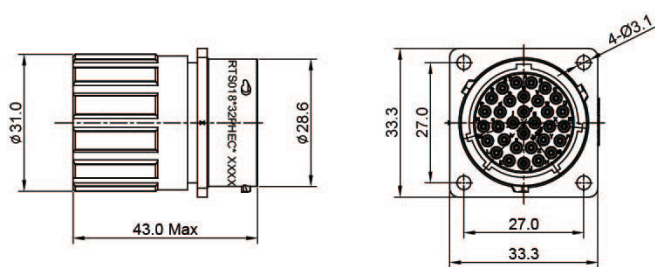


Female

Figure 5

RTS018N32S03

Square Flange Receptacle with Endcap

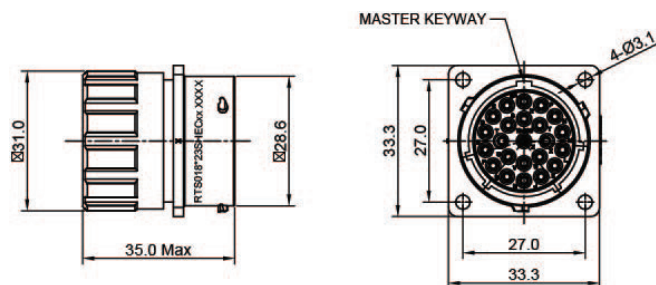


Male

Figure 6

RTS018N32PHEC03

Square Flange Receptacle with End cap



Female

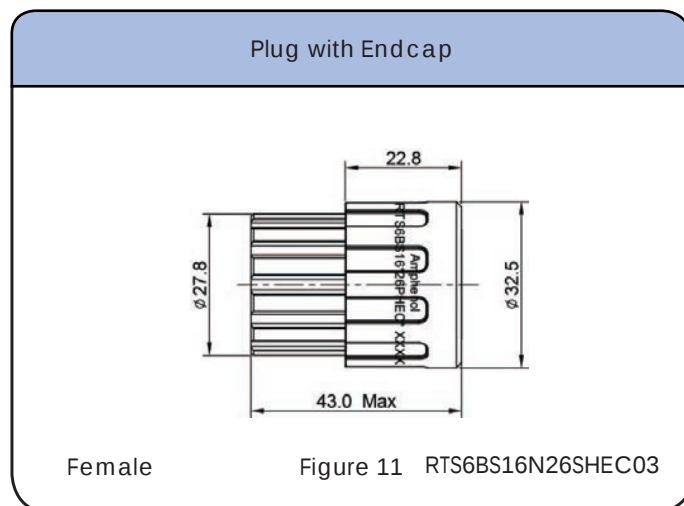
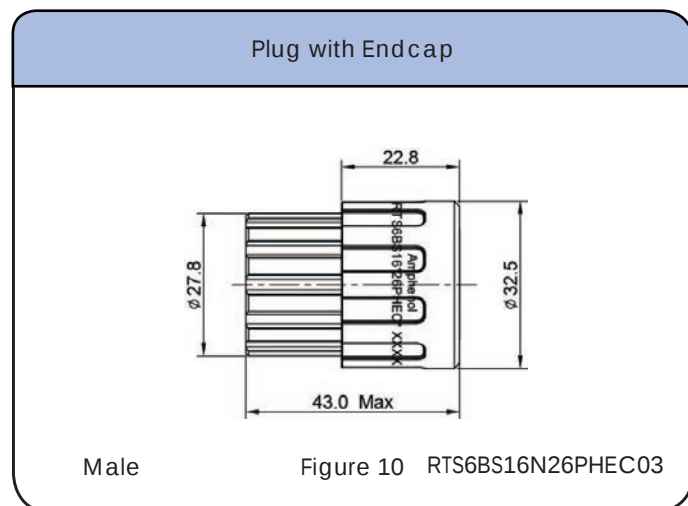
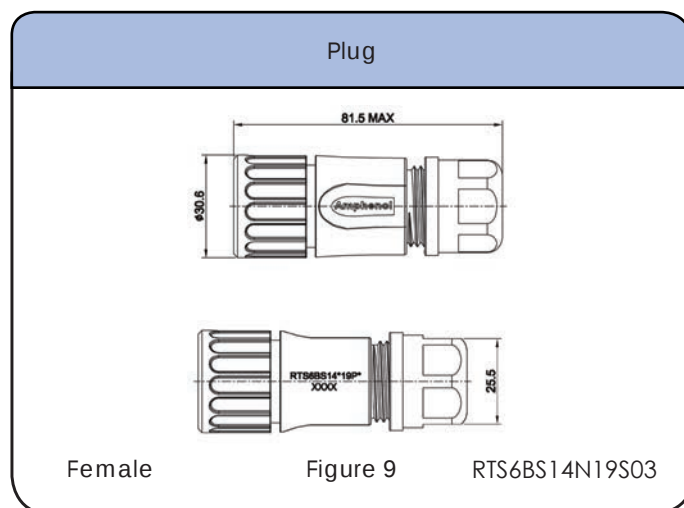
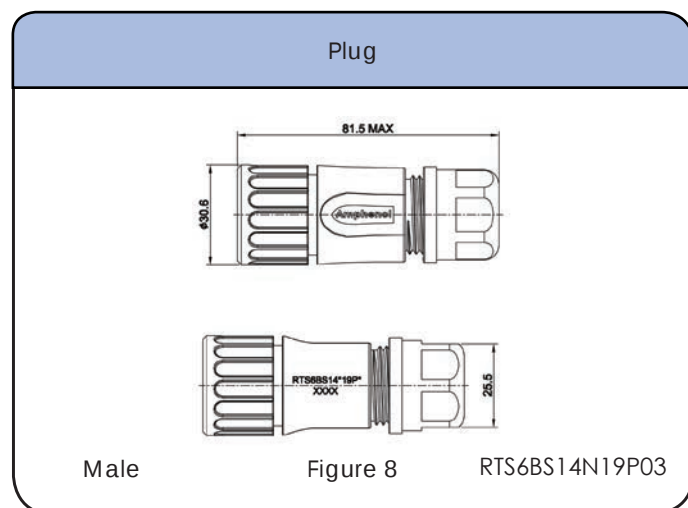
Figure 7

RTS018N32SHEC03

Shell Size: 18 Number of Contacts: 32
Sealing: IP67 / IP69k Salt Spray: 500h

Contact Size: 20

Dimensions Plugs



Shell Size: 18 Number of Contacts: 32 Contact Size: 20
Sealing: IP67 / IP69k Salt Spray: 500h

Accessories

Dust Cap for Plug, Size 18  RTS618NDCG	Dust Cap for Receptacle, Size 18  RTS018DCG	Sealing Plug, Size 20  AT13-204-2005
Coding Color Ring, Yellow, Size 18  RTS18CCRY	Coding Color Ring, Green, Size 18  RTS18CCRG	Coding Color Ring, Red, Size 18  RTS18CCRR

Shell Size: 18 **Number of Contacts: 32** **Contact Size: 20**
Sealing: IP67 / IP69k **Salt Spray: 500h**

Contacts



Crimp Contacts, Machined

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
MP20W23F	MS20W23F	22-20	.34-.50	Gold Flash
MP20W23G5	MS20W23G5	22-20	.34-.50	Gold 5μ"
MP20W23G10	MS20W23G10	22-20	.34-.50	Gold 10μ"
MP20W23G15	MS20W23G15	22-20	.34-.50	Gold 15μ"
MP20W23G30	MS20W23G30	22-20	.34-.50	Gold 30μ"
MP24W23F	MS24W23F	26-24	.13-.25	Gold Flash
MP24W23G5	MS24W23G5	26-24	.13-.25	Gold 5μ"
MP24W23G10	MS24W23G10	26-24	.13-.25	Gold 10μ"
MP24W23G15	MS24W23G15	26-24	.13-.25	Gold 15μ"
MP24W23G30	MS24W23G30	26-24	.13-.25	Gold 30μ"
MP28W23F	MS28W23F	30-28	.05-.08	Gold Flash
MP28W23G5	MS28W23G5	30-28	.05-.08	Gold 5μ"
MP28W23G10	MS28W23G10	30-28	.05-.08	Gold 10μ"
MP28W23G15	MS28W23G15	30-28	.05-.08	Gold 15μ"
MP28W23G30	MS28W23G30	30-28	.05-.08	Gold 30μ"

Tools

Contact Extraction Tool,
#20 (Ø 1.6) Contact



QXRT20

Hand Crimp Tool for
Machined Contacts



MF3-3959

Pneumatic Crimp Tool for
Machined Contact



MF3-3957

Shell Size: 18 Number of Contacts: 32 Contact Size: 20
Sealing: IP67 / IP69k Salt Spray: 500h

Contacts (con't)



Crimp Contacts, Stamped & Formed

Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
SP20W2F	SS20W2F	22-20	.34-.50	Gold Flash
SP20W2G5	SS20W2G5	22-20	.34-.50	Gold 5μ"
SP20W2G10	SS20W2G10	22-20	.34-.50	Gold 10μ"
SP20W2G15	SS20W2G15	22-20	.34-.50	Gold 15μ"
SP20W2G30	SS20W2G30	22-20	.34-.50	Gold 30μ"
SP24W2F	SS24W2F	26-24	.14-.25	Gold Flash
SP24W2G5	SS24W2G5	26-24	.14-.25	Gold 5μ"
SP24W2G10	SS24W2G10	26-24	.14-.25	Gold 10μ"
SP24W2G15	SS24W2G15	26-24	.14-.25	Gold 15μ"
SP24W2G30	SS24W2G30	26-24	.14-.25	Gold 30μ"
SP28W2F	SS28W2F	30-28	.05-.08	Gold Flash
SP28W2G5	SS28W2G5	30-28	.05-.08	Gold 5μ"
SP28W2G10	SS28W2G10	30-28	.05-.08	Gold 10μ"
SP28W2G15	SS28W2G15	30-28	.05-.08	Gold 15μ"
SP28W2G30	SS28W2G30	30-28	.05-.08	Gold 30μ"

Tools

Contact Extraction Tool,
#20 (Ø 1.6) Contact



QXRT20

Hand Tool, Stamped & Formed
Contact, Size 20, 20-28AWG



MFX-3958

Crimp Die for Stamped &
Formed Contact



MFX-3957

Appendix

Glossary of Terms

American Wire Gauge (AWG)	Connector life
System of numerical designations for wire sizes, based on specified ranges of cross-sectional areas. Starts with 4/0 (000) at the largest size, going to 3/0, 2/0, 1/0, 1, 2, and up to 40 and beyond for the smallest size. A step of one AWG number corresponds to a reduction of cross-sectional area of appr. 20 %.	The number of mating cycles prior to abrasion of the conductive contact surface and which does not result in a significant rise of the contact resistance. Tests according to test 9a of ICE 60512-5 / DIN EN 60512 Part 5.
Attenuation	Contact
A reduction of power. Occurs naturally when waves travel through lines, wave guides, or media such as air or water. Is produced additionally by imperfections in electrical or optical connections (attenuation in fibre optics), e. g. contact resistance, mismatch, etc.	The conductive element in a connector which mates with a corresponding element to provide an electrical path.
Bulkhead connector	Contact resistance
Connector designed to be inserted into a panel cutout from the rear of the panel, thus forming part of the barrier between two spaces. Back-mounted.	The electrical resistance of a mated set of contacts under specified conditions. Tested according to tests 2a, 2b, 2c, of IEC 60 512 -2/ DIN EN 60 512-2.
Clearance	Contact size
The shortest distance in air between two conductive parts, see IEC 60664.	The designation used to differentiate one contact from another. It may be denoted by one of the following numbering systems:
Climatic stability	Creepage distance
General term describing the behavior of components under various climatic conditions, e. g. high and low temperatures, tropical climate, high humidity, moist heat, fungus, atmospheric conditions (industrial atmosphere), reduced air pressure, etc. Climatic conditions for test purposes are explained in IEC 60068, DIN 46 040.	The shortest distance along the surface of the insulating material between two conductive parts. The longer the distance, the less the risk of arc damage or tracking. Minimum creepage distances are specified according to the rated voltage and the applicable pollution degree and Comparative Tracking Index.
Connector	Crimped connection
A component which terminates conductors for the purpose of providing connection and disconnection to a suitable mating component which shall not be engaged or disengaged when live. Depending on the fastening to a cabinet, panel, rack etc. or a cable, they are classified as fixed or free connectors. A connector comprises one or more contacts and a housing which may have a separate connector insert and a separate outer housing or shell.	A solderless connection made by crimping. IEC 60352-2 / DIN IEC 60352 Part 2.
Connector housing	Derating curve
The part of a connector into which the insert and the contacts are assembled. It may function as part of the locking mechanism.	The method for determining derating is specified in IEC 60 512-3. Here the combination of ambient temperature (Tu) and the current (I) leading to the same maximum allowable temperature (Tb) at the hottest point of the connector are plotted.
Connector insert	DIN
An insulating element designed to support and position contacts in a connector housing. In connectors electromagnetic interference is prevented by shielding. Shielded connectors normally provide means to connect the screens of attached cables.	Deutsches Institut für Normung. A German standards organization.
	Electromagnetic interference (EMI)
	General term describing the undesirable effects of the immission or emission of radio frequency fields.
	Funnel entry (restricted entry C146 D series)
	Flared or widened entrance to a conductor barrel permitting easier insertion of the conductor.
	Insertion or withdrawal force
	The force required to fully insert or withdraw a set of mated connectors without the effect of coupling, locking or similar devices. The insertion force is usually greater than the withdrawal force.

Appendix

Connector Glossary

Insulation grip	Shield, shielding
The area of a crimp contact that has been reshaped around the insulation of the conductor by compression during the crimping operation.	Shielding of internal or external electric fields by means of a plane with a uniform electric potential, formed by metal shells or metallic layers on the inside or outside of plastic shells. The shield is normally connected to the shielding braid of the cable and/or chassis ground.
Insulation resistance	Terminal block
The resistance of the insulation between two conductive elements, in particular, the resistance between two contacts or between a contact and a metallic housing or shield. Tested according to test 3a of IEC 60512-2 / DIN IEC 60512 Part 2.	An assembly of terminals in a housing or body of insulating material to facilitate interconnection between multiple conductors. Also called terminal strip or barrier blocks if the terminals are separated by an insulation barrier.
Intermateable	Wire range
Two connectors are intermateable when they are capable of being connected electrically and mechanically but without regard to their performance and intermountability.	The range of wire cross sections which is compatible with the dimensions the terminals of the contact (wire barrel). The wire range is expressed in mm ² or in AWG numbers.
Locator	
In a crimping tool the device used for positioning a crimp contact or terminal end.	
Locking lever	
A mechanical locking device operated by actuating a lever, designed to hold two mated connectors together. Typically the lever can only be fully locked if the two connectors are correctly mated.	
Mating cycle	
One mating cycle comprises one insertion and one withdrawal operation. Term used in the definition of connector life.	
Material group	
Classification of insulation materials according to their CTI values (CTI = Comparative Tracking Index)	
Overvoltage category	
A numeral defining a transient overvoltage condition. Overvoltage categories I, II, III and IV are used.	
Connector with braking capacity (CBC)	
A component which may be engaged or disengaged in normal use, when live or under load. Note: In the sense of this document the term - live- is used if contacts are under voltage not necessarily with a current flowing across the contacts. The term - load - is used if a current is flowing across the contacts.	
Rated current	
A current value assigned by the manufacturer which the connector or PSD can carry continuously (without interruption) and simultaneously through all its contacts wired with the largest conductor preferably at an ambient temperature of 40 °C without the upper temperature being exceeded.	

Appendix

Part Number Index

A114017.....65,87,95	MP16M23G30.....24,32,52,	MP24W23F.....18,44,78,	MS16M23G10.....24,32,52,
A114017-SR.....23,31,51,57,	58,77,96,110,	88,104,148,	58,77,96,110,
81,95,109,	118,126,140,	164,188,196	118,126,140,
117,125,139,	156,172,180	MP24W23G5.....18,44,78,	156,172,180
155,171,179	MP20M23F.....24,32,52,	88,104,148,	MS16M23G15.....24,32,52,
AT13-204-2005	58,77,96,110,	164,188,196	58,77,96,110,
.....17,43,81,87,103,147,163,	118,126,140,	MP24W23G10.....18,44,78,	118,126,140,
187,195	156,172,180	88,104,148,	156,172,180
MFX-3954.....25,33,53,59,79,	MP20M23G5.....24,32,52,	164,188,196	MS16M23G30.....24,32,52,
97,111,119,127,	58,77,96,110,	MP24W23G15.....18,44,78,	58,77,96,110,
141,157,173,181	118,126,140,	88,104,148,	118,126,140,
MFX-3957.....19,25,33,45,	156,172,180	164,188,196	156,172,180
53,59,79,89,97,	MP20M23G10.....24,32,52,	MP24W23G30.....18,44,78,	MS20M23F.....24,32,52,
105,111,119,127,	58,77,96,110,	88,104,148,	58,77,96,110,
141,149,157,164,	118,126,140,	164,188,196	118,126,140,
165,173,181,188,	156,172,180	MP28W23F.....18,44,78,	156,172,180
189,196,197	MP20M23G15.....24,32,52,	88,104,148,	MS20M23G5.....24,32,52,
MFX-3958.....19,45,89,105,	58,77,96,110,	164,188,196	58,77,96,110,
149,165,189,197	118,126,140,	MP28W23G5.....18,44,78,	118,126,140,
MFX-3959.....18,24,32,44,52,	156,172,180	88,104,148,	156,172,180
58,78,88,96,104,	MP20M23G30.....24,32,52,	164,188,196	MS20M23G10.....24,32,52,
118,126,140,148,	58,77,96,110,	MP28W23G10.....18,44,78,	58,77,96,110,
156,164,172,180,	118,126,140,	88,104,148,	118,126,140,
188,196,110	156,172,180	164,188,196	156,172,180
MFX-3960.....18,24,32,44,	MP20W23F.....18,44,78,	MP28W23G15.....18,44,78,	MS20M23G15.....24,32,52,
52,58,78,88,96	88,104,148,	88,104,148,	58,77,96,110,
104,118,126,140,	164,188,196	164,188,196	118,126,140,
148,156,172,180,110	MP20W23G5.....18,44,78,	MP28W23G30.....18,44,78,	156,172,180
MFX-3962.....65,89,	88,104,148,	88,104,148,	MS20M23G30.....24,32,52,
97,133,141	164,188,196	164,188,196	58,77,96,110,
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