

QDC - XX X X X X - X X X - X

CRISTEK QUICK-DISCONNECT
MICROMINIATURE CIRCULAR CONNECTOR

NUMBER OF CONTACTS

07
19
37

SHELL & CONTACTS TYPE CODE

F = FRONT PANEL MOUNTING RECEPTACLE
(PIN CONTACTS)
R = REAR PANEL MOUNTING RECEPTACLE
(PIN CONTACTS)
P = PLUG
(SOCKET CONTACTS)

SHELL MATERIAL

B = BRASS (REQUIRES PLATING)
S = STAINLESS STEEL (REQUIRES PASSIVATION)

SHELL FINISH

B = ELECTROLESS NICKEL (PREFERRED PLATING)
Y = YELLOW CHROMATE CADMIUM OVER NICKEL PLATE
O = OLIVE DRAB CADMIUM OVER NICKEL PLATE
P = PASSIVATION

TERMINATION

WIRE TYPE

STRANDED

H = HARNESS (MIL-W-16878/4)
M = MILITARY (MIL-W-22759/11) *
S = SPACE (MIL-W-22759/33)

SOLID

G = GOLD PLATED COPPER
T = TIN/LEAD PLATED COPPER

* = MOST COMMONLY USED & STOCKED WIRE TYPES

RELEASE OPTION (PLUG ONLY)

1 = SHELL W/ STD GRIP & CABLE NUT
2 = SHELL W/ LANYARD GRIP

WIRE LENGTH

STRANDED (+1.00 / -0.00)

1 = 6 INCHES
2 = 12 INCHES
3 = 18 INCHES
4 = 24 INCHES
5 = 36 INCHES
6 = 72 INCHES

SOLID COPPER (+0.20 / -0.00)

1 = 0.5 INCH
2 = 1.0 INCH
3 = 0.25 INCH

WIRE SIZE

STRANDED WIRE

0 = 26 AWG
1 = 24 AWG
2 = 28 AWG

SOLID WIRE

0 = 25 AWG
1 = 24 AWG

WIRE COLOR/TYPE

0 = WHITE STRANDED *
1 = YELLOW STRANDED
2 = 10 SOLID COLORS REPEATED *
3 = FULL COLOR CODE STRANDED
9 = SOLID COPPER *

MATERIALS AND FINISHES ARE IAW MIL-DTL-83513 WHERE APPLICABLE
FOR DETAILS SEE MIL SPEC OR WWW.CRISTEK.COM

1. MATERIALS:

SHELL, COUPLING NUT AND JAM NUT - BRASS OR STAINLESS STEEL
INSERT - REINFORCED THERMOPLASTIC, THERMOSET OR
EPOXY RESIN DIELECTRIC PLASTICS
PIN/SOCKET CONTACT - COPPER ALLOY

2. FINISH:

SHELL, COUPLING NUT AND JAM NUT - ELECTROLESS NICKEL,
YELLOW CADMIUM OVER ELECTROLESS NICKEL,
OLIVE CADMIUM OVER NICKEL OR PASSIVATION
CONTACT - GOLD OVER NICKEL

3. SPECIFICATIONS:

CURRENT RATING ----- 3 AMPS MAX
TEMPERATURE RATING ----- -55° C TO +125° C
INSULATION RESISTANCE ----- 5000 MEGOHMS MIN
DWV AT SEA LEVEL ----- 600 VAC
DWV AT 70,000 FT ALTITUDE -- 150 VAC
CONTACT RESISTANCE
26 AWG ----- 32 MILLIOHMS
25 AWG ----- 25 MILLIOHMS
24 AWG ----- 25 MILLIOHMS
LOW LEVEL CONTACT ----- 10 MILLIOHMS MAX
RESISTANCE
CONTACT RETENTION ----- 5 LBS MINIMUM AXIAL LOAD
ENGAGEMENT FORCE ----- 6 oz MAX
SEPARATION FORCE ----- 0.5 oz MIN

4. ADDITIONAL INFORMATION:

DESIGN AND PERFORMANCE IN GENERAL
ACCORDANCE WITH M83513 WHERE
APPLICABLE.

FOR OTHER TERMINATIONS,
CONTACT CRISTEK.

TOLERANCE: .XXX ±.005
.XX ±.01
ANGLE ±1°

TITLE **QUICK DISCONNECT CIRCULAR
MICROMINIATURE
METAL SHELL**

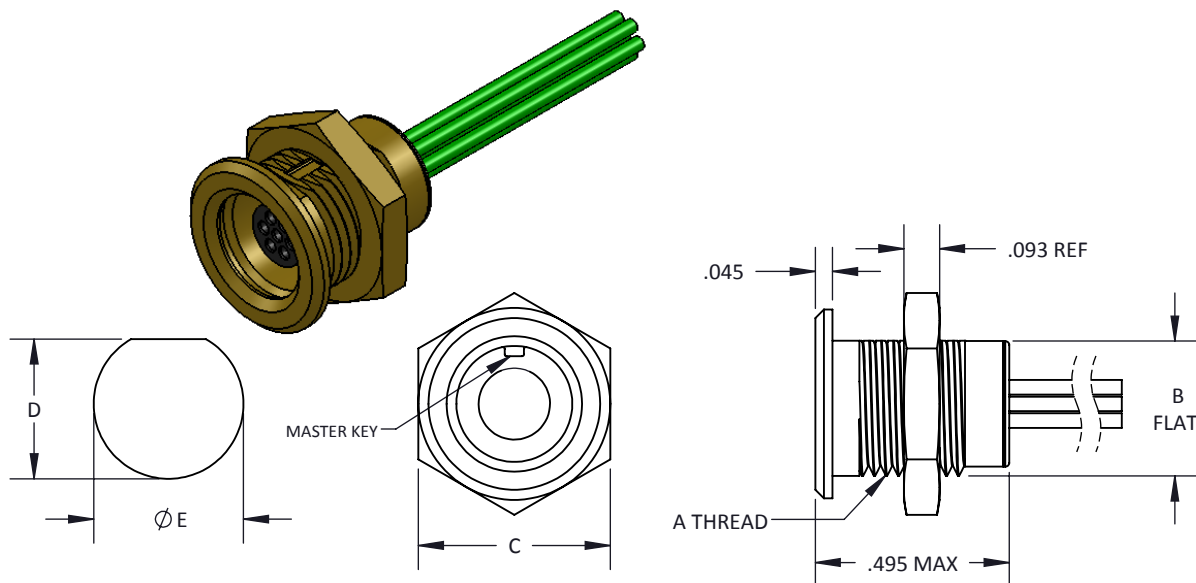
SHT 1 OF 3

DWG. NO.

QDC

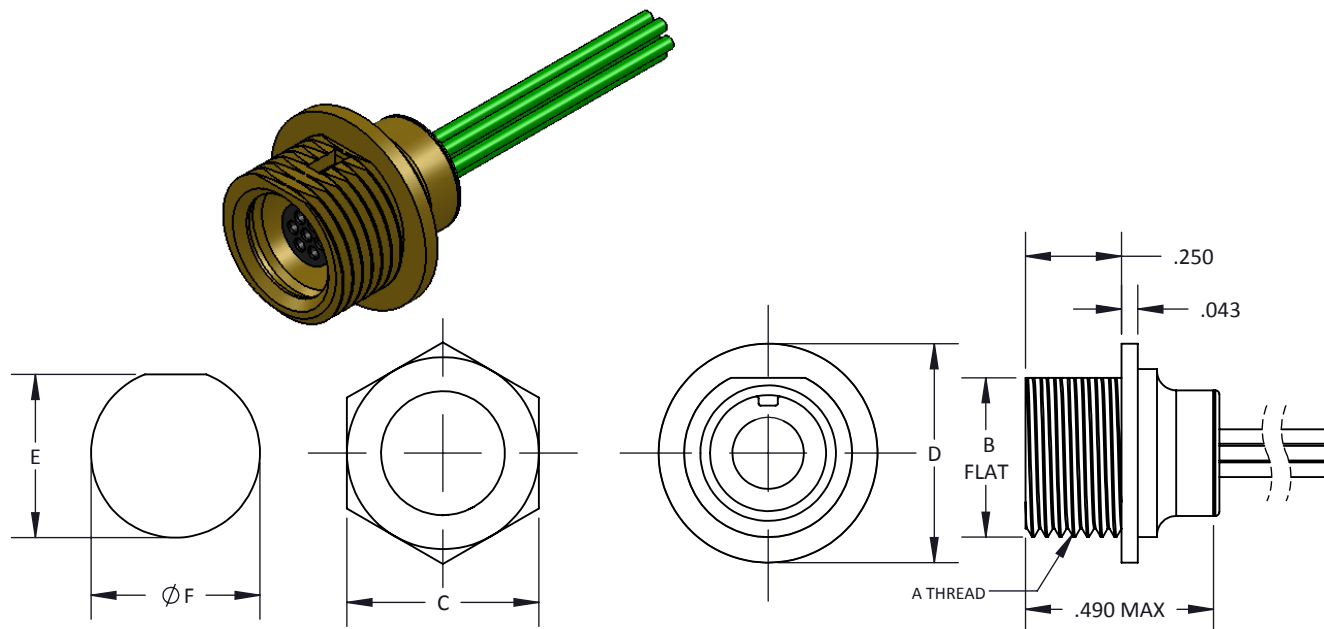
REV

D



SHELL SIZE	A THREAD UNEF-2A	B MAX	C MAX	D	Ø E
7	.375-32	.359	.510	.364	.390
19	.500-28	.470	.575	.475	.515
37	.750-20	.740	.855	.740	.755

FRONT PANEL MOUNTING RECEPTACLE (TYPE F)



SHELL SIZE	A THREAD UNEF-2A	B MAX	C MAX	Ø D MAX	E	Ø F
7	.4375-28	.415	.570	.570	.425	.440
19	.5625-24	.525	.625	.635	.535	.564
37	.750-20	.730	.8125	.885	.740	.755

REAR PANEL MOUNTING RECEPTACLE (TYPE R)

TOLERANCE: .XXX ±.005
.XX ±.01
ANGLE ±1°

TITLE QUICK DISCONNECT CIRCULAR
MICROMINIATURE
METAL SHELL

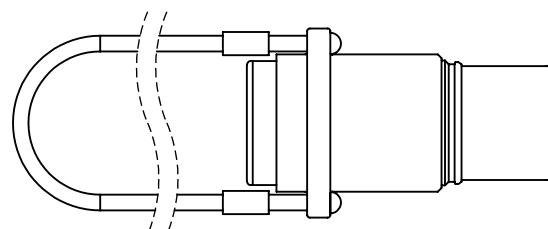
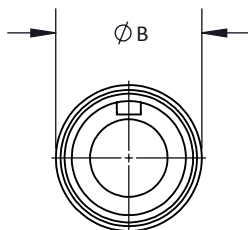
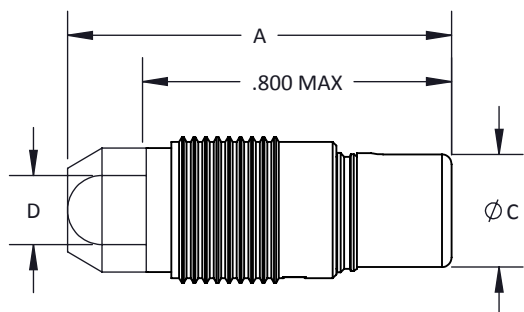
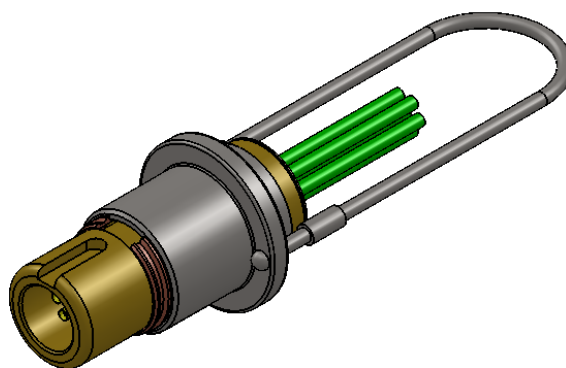
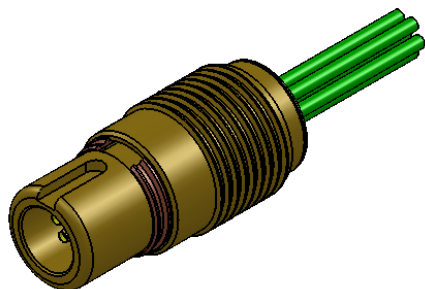
SHT 2 OF 3

DWG. NO.

QDC

REV

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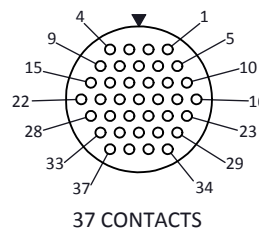
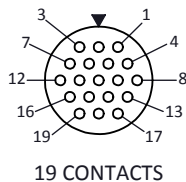
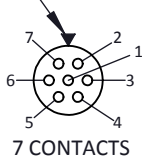
SHELL W/ STD GRIP AND CABLE NUT
(RELEASE OPTION 2)

SHELL W/ LANYARD GRIP
(RELEASE OPTION 2)
(CONSULT FACTORY FOR DETAILED INFORMATION)

SHELL SIZE	A MAX	Ø B MAX	Ø C MAX	Ø D MAX
7	1.000	.385	.305	.180
19	1.000	.515	.405	.260
37	1.250	.760	.635	.350

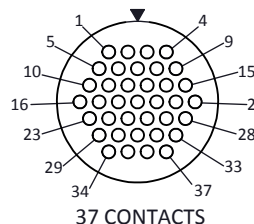
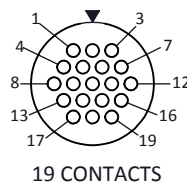
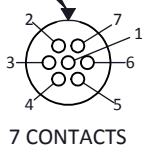
PLUG (TYPE P)

MASTER KEY (TYPICAL)



SOCKET INSERT MATING FACE (PLUG)

MASTER KEY (TYPICAL)



PIN INSERT MATING FACE (RECEPTACLE)

TOLERANCE: .XXX ±.005
.XX ±.01
ANGLE ±1°

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SHT 3 OF 3

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