

CCA2-RRLGx Parts List and Assembly

Parts List:

- 1* - (1 ea) connector accessory body (ALD Systems p/n CCA2-RRLGx)
 - 2 - (1 ea) MS3116F8-2S connector body (or similar connector)
 - 3* - (1 ea) Ø1/2" bore stainless steel snap ring (McMaster-Carr p/n 92370A121)
 - 4* - (2 ea) Ø1/16" x 1/2" lg. slotted spring pin (McMaster-Carr p/n 92383A106)
 - 5 - (1 ea) MS3116F8-2S rubber strain relief grommet
 - 6 - (1 ea) MS3116F8-2S connector strain relief back shell
 - 7 - (1 ea) MS3116F8-2S cable shield sleeve
 - 8 - (1 ea) MS3116F8-2S rubber conductor insulator grommet
 - 10* - (1 ea) 3/8" aluminum tubing nut (McMaster-Carr p/n 2227K62)
 - 11 - (1 ea) Model G2 or G4 electrically-initiated cord cutter
 - 12 - (2 ea) D-sub gold plated contacts 24-28 AWG (Digi-Key p/n A1630-ND)
 - 12[†] - (2 ea) #20 Mil-Spec crimp contact pins (Digi-Key p/n 10-314980-20P-ND)
 - 13 - (2 ea) Ø3/32" x 3/4" Lg Polyolefin Shrink Tubing (McMaster-Carr p/n 7856K121)
 - 14 - (1 ea) Ø1/4" x 3/4" Lg Polyolefin Shrink Tubing (McMaster-Carr p/n 7856K151)
- * included in kit with connector accessory body
[†] Optional alternative contact pins (Rev. C or later)

Assembly Instructions:

Install circular connector into accessory body:

- ◆ Insert part 2 fully into part 1
- ◆ Install part 3 into groove of part 1
- ◆ Slide part 2 against part 3
- ◆ Spin part 2 so widest keyway is aligned between holes in part 1 that accept part 4
- ◆ Insert parts 4 into part 1
- ◆ Thread part 10 onto part 1, do not tighten

Assemble circular connector:

- ◆ Place parts 5, 6, 7, and 8 on properly prepared wire
- ◆ Solder wire conductors into part 2 contacts
- ◆ Slide part 8 to part 2
- ◆ Slide part 7 over part 8, capturing wire shield
- ◆ Thread part 6 onto part 2, thread-lock and tighten against part 1
- ◆ Slide part 5 between part 6 ears and tighten strain relief wire clamp screws

Prepare cutter leads:

- ◆ Cut part 11 leads to 9/16" (3/8"[†]) length and insulation to 1/2" (1/4"[†]) length
- ◆ Crimp parts 12 to leads of part 11, ensuring parts 12 do not touch metal of part 11
- ◆ Slide parts 13 over leads of part 11 and parts 12 then heat to shrink, ensuring parts 12 do not touch
- ◆ Slide part 14 over parts 13 then heat to shrink

*** Ensure parts 13 and part 14 do not cover and contact area of parts 12 ***

Install cutter into connector accessory body:

- ◆ Insert prepared cutter lead contacts into hole of part 10 to mate with socket contacts of part 2
- ◆ Tighten part 10 to part 1 with part 11 fully seated into part 1, torque to 150-200 in-lb

