

# UPL-XXX-12

For 1/2" Annular Plenum Connectors



Connector models supported				
Interface	7-16 DIN	N	4.3-10	2.2-5
Male	UPL-DM-12	UPL-NM-12	UPL-4MT-12	UPL-2MT-12-01
Female	UPL-DF-12	UPL-NF-12	UPL-4F-12	
Right angle	UPL-DRA-12	UPL-NRA-12	UPL-4RT-12	
Male push-pull			UPL-4MP-12	



[Scan for install video](#)

## Tools/materials required

Power drill	SP-12PL-01 Prep/strip tool	HCG-CC (RP240 / RP210-B / RP100-B)	Frameset	TQ-78-F8 4.3-10	TW1412 N type	TQ-114-F18 7-16 DIN Male
			 Refer to Step #3			
SP-PLV	TQ-916-F6 2.2-5	RDCUTTER-S	SP-CC	Adjustable Wrench	Alcohol wipe (included with connector)	

## Step #1: Prep



Straighten the cable. Using RDCUTTER-S, apply even pressure while rotating the tool around the cable to cut off the cable squarely.



Attach the prep/strip tool to the drill. Keep the prepped cable end at a downward angle during the prep-coring process.



Actuate drill to remove jacket and expose center conductor. Make sure final cut is in the valley, and center conductor is fully chamfered. See Cable Preparation Guide, page 2.



Hold the prepped cable end at a downward angle, tapping the cable while vacuuming with the SP-PLV adapter.



Use the center conductor cleaner (SP-CC) tool to remove any remaining dielectric material on the center conductor.



Use coring bit "V1," included with prep tool, to remove dielectric until cable reaches stop on the tool. You may also use the included T-Handle to prep/strip & core cable.



Cable will have approximately one corrugation of dielectric removed.



Hold the prepped cable end at a downward angle, tapping the cable while vacuuming a second time.

## Step #2: Install



Align the outer conductor as shown with the groove on the cap. Mark the cable jacket (using pen or marker) in line with the end of the connector.



Use the alcohol wipe to clean the inner and outer conductors thoroughly.



Push the connector onto the cable until it reaches the alignment mark, and two clicks are heard/felt.

## Step #3: Frameset options

HCG-Frameset-12	
Connector	Frameset insert
7-16 DIN	A
RA	A
N	B
4.3-10	D
2.2-5	D
 Insert A   Insert B   Insert D	
Refer to chart to select proper insert for connector type.	

HCG-FS-12-01	
Connector	Frameset insert
7-16 DIN	2
RA	2
N	3
4.3-10	1
2.2-5	1
 Insert 1   Insert 2   Insert 3	
Refer to chart to select proper insert for connector type.	



[Scan for HCG-FS-12-01 Frameset Operation Manual](#)

## Step #4: Compress



Select the proper insert for the connector. Pull/push back the insert to allow the connector/cable to lie flat in the frame.



Make sure the connector is fully seated. Press the HCG tool trigger until the gun cycles. Do not pull or push on the tool during compression.



When fully compressed, the connector will move away from the alignment mark.

## Step #5: Torque



When using the torque wrench, make sure the mating connector is supported by an adjustable wrench.

Proper torque		
Series	Torque	Hex nut size
N	14 lbf·in (1.2 lbf·ft)	3/4" (19 mm)
7-16 DIN	216 lbf·in (18 lbf·ft)	1-1/4" (32 mm)
4.3-10	96 lbf·in (8 lbf·ft)	7/8" (22 mm)
2.2-5.0	72 lbf·in (6 lbf·ft)	9/16" (16 mm)

**Note:** 4.3-10 push-pull connectors (4MP) do not require the torque step.

**Cable Preparation Guide**  
 Compare to picture to determine if correct cable prep was performed.  
 (For reference only)

Center conductor length → ←

