



Installation Instruction for Pre-Insulated Multi-Tap Connectors

Compact, Connectors Class B, C, Flex Class G, H, I, K, M & DLO Copper and Aluminum Conductors

OEC USA INC.

OEC's Orion® Pre-Insulated Multi-Tap Connectors are designed and engineered to provide a safe, secure, and efficient solution for tapping into electrical circuits. for parallel runs of primary power conductors or connecting DLO or flex cables. Orion® Pre-Insulated Multi-Tap Connectors are available in broad range of sizes, “ports” and configurations to match the needs of any installation.

OEC Pre-Insulated Multi-Tap Connectors: Installation Instructions

1. Wire Preparation:

- Strip insulation to the required length and clean any oxidation with a wire brush.

2. Connector Preparation:

- Ensure connectors are prefilled with antioxidant to prevent oxidation.

3. Insert Conductor into Connector:

- Insert each conductor into its designated port, ensuring insulation is correctly placed inside the port (at least 3/8" inside).

4. Torque the Pressure Screws:

- Tighten screws to the specified torque values to ensure a stable connection.

5. Final Check:

- Inspect connections for proper insertion, correct insulation placement, and correct torque.



Certifications

- cULus Listed
- Compliance to NEC 230.46
- Suitable for use on the line side of service equipment
- UL Listed for FLEX conductors (Class G, H, I, K, M & DLO)
- UL94 and UV Stabilized material with “V0 Flammability”



Configurations



Single Sided Entry



Dual Sided Entry



Insulated Inline Splice



Insulated Multi-Tap Connectors
Alternate Entry With Mounting



Single Sided Entry
With Mounting



Dual Sided Entry
With Mounting



Insulated Inline Splice
Double Stud



Insulated Multi-Tap Connectors
Alternate Entry

Tightening Torque (in-lbs) Values for OEC Pre-Insulated Multi-Tap Connectors

Wire Size (AWG/Kcmil)	Connector Size									
	750	600	500	350	250	3/0	2/0	1/0	#2	#4
750	443									
600	443	443								
500	443	443	310							
400	443	443	310							
350	443	443	310	275						
250	443	443	310	275	275					
4/0	443	443	310	275	275					
3/0	443	443	310	275	275	100				
2/0	443	443	310	275	275	100	100			
1/0	443	443	310	275	275	100	100	100		
#3	443	443	310	275	275	100	100	100		
#2	443	443	310	275	275	100	100	100	50	
#1		443	310	275	275	100	100	100	50	
#4		443	310	275	275	100	100	100	50	35
#6		443	310	275	275	100	100	100	50	35
#8				275	275	100	100	100	50	35
#10				100	100	25	25	25	25	25
#14						25	25	25	25	25

Information Sheet OEC Socket Head Screw connectors

Connector Size	Strip Length (in)	Screw Thread (in)	Internal Socket size (in)	Mounting Bolt Size (in)
ISR 750	2	7/8	5/16	5/16
750	2	1	3/8	5/16
600	2	7/8	5/16	5/16
500	1-1/2	7/8	5/16	5/16
350	1.5	3/4	5/16	5/16
250	1	9/16	5/16	5/16
3/0	1	1/2	1/4	1/4
2/0	1	3/8	3/16	1/4
1/0	1	3/8	3/16	1/4
#2	1	5/16	Slotted	1/4
#4	3/4	1/4	1/8	1/4

Available in Colors :



Black



Blue



Clear



Gray

ORION®
INSULATED CONNECTORS