

Orion Star Series™ Electrode Connectors

Connectors that stay dry and stay connected

Connector/cable close-up. If you have ever lost data – or even an electrode – because of a failed connection, you'll appreciate Star Series' proprietary waterproof BNC and MiniDIN locking connectors used to connect Orion Star™ Series electrodes with MiniDIN connectors to older Orion meters.



New Connector MiniDIN

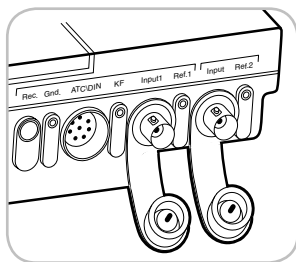
Orion Star Series Electrode Adapter Cables		
Description	Orion Meter Capabilities	Orion #
MiniDIN ATC to 3.5 mm PINTIP	Used on Orion 310, 320, 330, 370, PCM200, PCM500, PCM700, 550A, 535A, 555A, 162A	1010050
MiniDIN ATC to 8 PIN DIN ATC	Used on Orion 210A ⁺ , 230A ⁺ , 250A ⁺ , 290A ⁺ , 410A ⁺ , 420A ⁺ , 520A ⁺ , 525A ⁺ , 710A ⁺ , 920A ⁺	1010051
MiniDIN DO to 8 PIN WPDIN DO (Waterproof)	Used on Orion 830A, 835A and 862A	1010800
MiniDIN DO to 8 PIN DIN DO (Not Waterproof)	Used on Orion 805, 810, 850 and PCM800	1010801
MiniDIN Conductivity to 8 PIN WPDIN Conductivity (Waterproof)	Used on Orion 1230, 555A, 550A, 550, 162A, 162, 142, 135, 130, 128	1010900
MiniDIN Conductivity to 8 PIN PIN Conductivity (Not Waterproof)	Used on Orion 150, 145, 125, 115, 105, PCM100	1010901

Orion Electrode Connectors

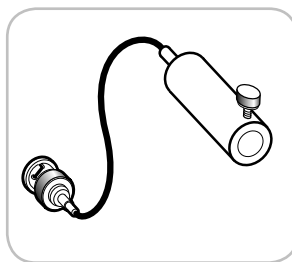
Thermo Electron offers many pH/ISE and ATC probes with different cable connectors. With Orion electrode adapters and detachable electrode cables, you can use many of Thermo Electron's Orion pH/ISE and ATC probes on many

different brands of meters. Refer to the table on the following page to select the appropriate cable or adapter to fit your meter or titrator. One electrode cable or adapter assembly is interchangeable between different Orion electrodes.

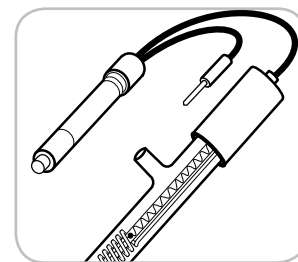
Guide to Orion Adapters



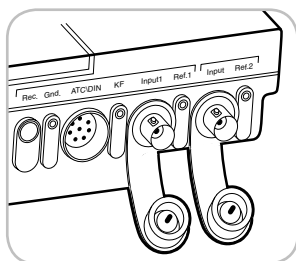
Meter or Titrator



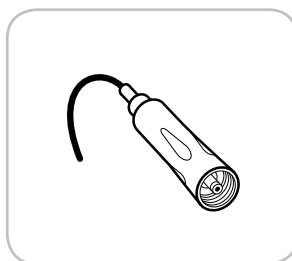
Adapter



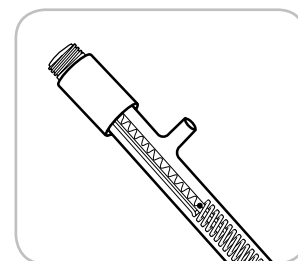
Electrode



Meter or Titrator



Screw Cap Cable Assembly



Screw Cap Electrode



1. BNC Connector



2. U.S. Standard Connector



3. Screw Cap Connector



4. Pin Tip Connector

Types of Connectors on Orion Electrodes:

- | | |
|-------------------------------------|--|
| 1. BNC Connector | Most designated with a (BN) on the end of Electrode Orion # (Ex. Orion 9409BN) |
| 2. U.S. Std. Connector | Most designated with a (00) on the end of Electrode Orion # (Ex. Orion 813500) |
| 3. Screw Cap Connector | Most designated with a (SC) on the end of Electrode Orion # (Ex. Specialty/Titration Electrodes) |
| 4. Pin Tip Connector | Designated with (00) on the end of Electrode Orion for Reference Electrode in Half-Cell Systems (Ex. Orion 800500) |
| 5. MiniDIN | Designated with a (MD) on the end of Electrode Orion # (Ex. 927007MD) |
| 6. 8 Pin H ₂ O proof DIN | Most designated with (A) on end of Electrode Orion # (Ex. 013005A) |
| 7. 8 Pin DIN | Most designated with (00) on end of Electrode Orion # (Ex. 081010) |

Orion Electrode Connectors

Ordering Information					
Meter Brand	Meter Input	Electrode Connector	Adapter Needed	Orion #	
Orion (1) Accumet Barnant Beckman (1) Cole Parmer Corning (1) Denver Electrofact (1) Fisher (1) Great Lakes Hach Hanna Horiba Ionics/Whatman	Jenco Jenway Kent EIL (1) LaMotte Markson Oakton Omega Phillips Radiometer (1) Tacussel (1) Tytronics Unicam VWRbrand	BNC	U.S. Standard Connector Screw Cap Connector Orion Karl Fischer (Orion 977900)	US Standard to BNC Adapter Detachable Cable w/ BNC Connector Karl Fischer Adapter	090033 91CBNC 090048
Orion (2) Beckman (2) Corning (2) Fisher (2) Kyoto	U.S. Standard	BNC Connector Any comb. electrode w/ Screw Cap Connector Any half cell electrode w/ Screw Cap Connector	BNC to U.S. Standard Adapter Detachable Cable w/ U.S. Std Connector Detachable Cable w/ Half-Cell Std. Connector	090032 91USCB 91USHC	
Metrohm (1)	F LEMO	BNC Connector Screw Cap Connector	BNC to F LEMO Adapter Detachable Cable w/ Screw Cap Connector	090036 91CLFO	
Mettler (1)	LEMO Miniature	BNC Connector Screw Cap Connector	BNC to LEMO Miniature Adapter Detachable Cable w/ LEMO Connector	090035 91CLMO	
Electrofact (2) Phillips (2)	Phillips	Screw Cap Connector	Detachable Cable w/ Phillips Connector	91CBNL	
Kent EIL	British	Screw Cap Connector	Detachable Cable w/ British Connector	91CBBR	
Knick Metrohm (2) Mettler (2) Schott WTW	E DIN	BNC Connector Screw Cap Connector	BNC to E DIN Adapter Detachable Cable w/ Type E Din Connector	090034 91CDIN	
Radiometer (2)	Radiometer No. 7	BNC Connector Screw Cap Connector	BNC to Radiometer Adapter Detachable Cable w/ Radiometer No. 7 Connector	090037 91CBRA	
Meter with w/ 2mm Pin Tip Reference Connector	2 mm Pin Tip	Screw Cap Connector	Detachable Cable w/ Pin Tip Reference Connector	91USRF	
Other Meter Type	OTHER	Screw Cap Connector	Detachable Cable w/o Meter Connector (Stripped End)	91CBNT	

Ordering Information		
Description	For electrodes with these connectors	Orion #
15 ft. Extension Cable, with U.S. Standard connector	All U.S. Standard half-cell electrodes	910025
15 ft. Extension Cable, with pin tip connector	All pin tip reference electrodes	910026
15 ft. Extension Cable, with BNC connector	All BNC electrodes	910027
15 ft. Extension Cable, with DIN connector	pHuture® pH Electrodes (Orion 6157 and Orion 6165), ATC Probes Orion 917005, 917006, 917007	910028
15 ft. Extension Cable, with phono ATC	All phono tip ATC probes	910029
15 ft. Extension Cable, with BNC/phono ATC	All PerpHecT® Triode™	910030
15 ft. Extension Cable, with banana jack adapter	All banana tip ATC probes	910031

Key

(1) Most current models (2) Most older models

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