

PHASE 3 SINGLE POLE ELECTRICAL DEVICES

Installation Instructions - Double Set Screw

GENERAL INFORMATION:

CAUTION: Risk of Electric Shock. Disconnect power before installing connector. Never wire energised components. For installation by a qualified person in accordance with national and local electrical codes.

CAUTION: Use copper conductors only.

CAUTION: Not for interrupting current.

CAUTION: Rated for use with 90°C power cable types, SC, SCE, SCT, G, PPE, PPC or W

CAUTION: Magnetic ferrous enclosures mounting surfaces can generate heat from inductive fields.

Part Number	Reduction Sleeve	Copper Cable Size	Ampacity (Maximum)	Set Screw Torque Setting	Cable Jacket Strip Length
S120	N/A	250 Kcmil	455A	12 N-m	33mm
	R107	4/0 AWG	400A	12 N-m	33mm
	R95	3/0 AWG	350A	12 N-m	33mm
	R70	2/0 AWG	300A	12 N-m	33mm
	R50	1 AWG	220A	12 N-m	33mm
	R35	2 AWG	190A	12 N-m	33mm
	R25	4 AWG	105A	12 N-m	33mm

Recommended Assembly Procedure:

1. From the packaging: Remove the cable gland from the moulding and remove the contact.
2. Check the cable overall diameter. The standard Black M40A gland will facilitate cable diameter of 19-28mm. If your cable is of a diameter between 15 and 18mm diameter the Blue M40S reduction bush supplied should be fitted to the M40A cable gland. To do this remove the black rubber sealing ring inside the rear of the gland and replace with the Blue M40S bush.
3. Slide the completed cable gland along the cable jacket.
4. With care strip back the cable the insulation 33mm trying not to damage any of the conductors stranding.
5. Fit the correct end sleeve or combination of end sleeves (see table below) over the conductor strands. Take care to ensure all the wire strands are inside the end sleeve 33mm. Select the appropriate reduction sleeves and slide in sequence on to the exposed conductor stranding. Please note; all sleeves down to the size recommended for the cable must be used All the sleeves fit perfectly inside each other to create a gradual reduction span. The flared end of the sleeves should be against the cable insulation
6. Slide the cable and reduction sleeves into the back of the contact ensuring they are fully inserted inside the contact.
7. Using a 5mm Allen key tighten the set screws in the contact in accordance with the table above.
8. Now insert the contact into the rear of the insulator and align the hole in the contact so that it is in line with the holes in the insulator.
9. Now align the dowel pin with the tapered end first with the hole in the insulator. The dowel pin is designed to be a tight interference fit with insulator hole and it is necessary to drive the pin using a hammer through the insulator and contact. When fully inserted the pin will be flush with the surface of the insulator body.

 Note: **Dowel pins are designed to be used only once.** In the event that the connector is unassembled a new dowel pin should be fitted on re-assembly., these are available from the factory. Also **never use a dowel pin that is not a tight interference fit** within the Insulator as this could lead to failure of the watertight barrier or allow the contact to dislodge from the insulator. Periodic checks should be made to ensure security of dowel pins.
10. Now screw the cable gland onto the insulator and tighten the body and dome nut to 11 N-m.

***** WARNING *****

Do not alter this product in any way. Doing so may lead to serious injury or death. Use copper conductors only. Read Instructions completely before wiring. Ensure all safety checks are carried out before and after use. This product should be installed, inspected and maintained by qualified electricians only, in accordance with local and national electrical codes. If in doubt, seek advice from Phase 3 Connectors