

Fitting Instructions

Branch connectors for power cables

Product description

These branch connectors are equipped with bolts, which shear off smoothly when the optimum contact force has been reached on tightening. They are used for joining the ends of cables with the same or different cross-section (see assignment table).

The scope of supply includes:

- 1 Bolted connector with shear bolts;
- Coloured centring sleeves (see table);
- Fitting instructions;
- Plastic covers for shear bolts (not supplied with all versions)

⚠ Branch connectors may only be fitted by qualified and trained specialist personnel. Fitting is to be carried out in clean and dry conditions. Read the fitting instructions carefully before fitting.

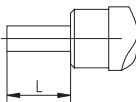
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Fitting

Preparation of cable ends

- Saw cable off evenly; do not cut.
- Remove outer sheath. The stripping length is to be chosen in accordance with the information provided by the joint box manufacturer.
- Cut to length the remaining layers, screens and insulation, with the exception of the primary insulation, in accordance with the joint box manufacturer's instructions.
- When removing the primary insulation and the conductor smoothing layer, the following dimensions apply:

Connector mm ²	Stripping length L mm	
	with centring sleeve	without centring sleeve
25 – 150	60	55
50 – 240	76	74



- We recommend cleaning aluminium cable ends shortly before placing in the conductor channel. The bare conductor must be clean and free from grease when fitting.

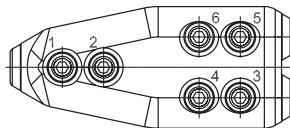
Preparing the branch connector

- Centring sleeves must be used with smaller conductor sizes in order to ensure that the conductor is guided centrally (see assignment table). Fit the centring sleeve as far as the stop.

⚠ The branch connector is pre-greased. Do not remove the grease.

- Feed the stripped cable ends into the branch connector.
- Screw in the shear bolts evenly using an Allen key (width across flats, see assignment table) starting with No. 1 until they break off smoothly. Continue with bolt No. 2 and similarly with the opposite side of the connector. (Tightening sequence see sketch).

Tightening sequence



⚠ The bolt must not protrude above the body of the branch connector after shearing. (Address the excess length if necessary).

- If supplied, centre plastic covers over sheared-off bolts and press into place.

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Assignment table for centring sleeves

Designation Cross section	Allen key Width/Length/Height	332 447 001 50-240 mm ²		332 447 005 25-150 mm ²		332 447 001 50-240 mm ²		
		SW 6 68 mm / 166 mm / 33 mm		SW 5 56 mm / 130 mm / 28 mm		SW 6 68 mm / 166 mm / 33 mm		
		blue	black	grey	black	without	white	without
Round solid	Al Cu	50-95	95-150	25-70	95-120	150	185	240
Sector solid	Al Cu	50-70	95	25-70	95	120	120-150	185
Round stranded	Al Cu	50-70	95	25-50	70-95	120	95	120-150
Round stranded and compacted	Al Cu	50-70	95	25-70	95	120-150	95-120	150-185
Sector stranded	Al Cu	50	70	25-50	70	50	70	95
		50	70	25-35	50	70-95	70	120-150