Saf-T-Bar Conductor Bar
T Series

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**Hanger Clamps**

Hanger Clamps are stamped cold rolled steel, nylon coated. May be furnished in multiples on 1” centers. Can be mounted using cross bolt or back bolt. Bolts are 1/4” and require a 5/16” mounting hole. Hangers are required every 5’ of conductor. Joints should not be located more than 3” from hangers to avoid flexing.

**WARNING:** Power Service Disconnect must be locked in the OFF position before attempting any conductor service.
Joining Conductor Sections

The joint splice assembly connects and aligns standard 10’ conductor lengths. The joint clip is furnished in place on one end of the conductor. End of adjacent conductor slides into joint clip and is pulled up tight with joint tool. A 4” joint cover slides over the exposed joint area to complete the insulation. The joint cover locks into place by means of indents and is formed of the same material as the insulating conductor cover.

Joining Sections is Quick as ABC...

A Slide hanger clamps on bar. Secure clamps in mounting holes on brackets. Be sure bar slides smoothly inside each clamp (until joining operation is completed). Maintain 3” spacing at ends of bars.

B Slide joint cover over bar.

C Insert Joint Tool (TY65 recommended) into holes at ends of Bars. Draw Bars together until they butt. Slide cover over joint. Tighten clamps on bar.

Expansion Gaps

Expansion gaps may be required every 150 feet for steel conductors, and every 100 feet for copper conductors, this length expanding 1” in 100°F temperature change. Set up gap with jumper as shown, e.g.: 0°F 1” gap, 50°F .50” gap, 100°F 0” gap. Two extra power feeds and a jumper bridge the gap electrically. Hanger clamps held in the grooved Gap Guide Bracket align the two conductors. Extended joint cover and insulating cover complete the installation. The support bolt on the guide frame must go to a conductor mounting bracket. (For low amperage applications, if there are no runway expansion gaps may be omitted. If in doubt, consult the factory.)
Isolation Points

A rigid plastic sleeve, providing 0.50" over surface gap electrically, for electrical segmentation of conductor bars. A self supporting sleeve. TA65IS

Bending and Cutting

Saf-T-Bar may be bent against the back, or the open face, of the conductor (the easy way). Minimum radius 18.0". Bending against the side of the conductor (the hard way) requires factory bending to order. Minimum radius 24.0". Conductor may be cut with a hacksaw and filed smooth. Drill a 0.25" hole, 1.50" from end to receive the joint tool. 12.0" radii may be formed if 30-amp collectors are used. Factory bends are recommended.

Power Feed

A terminal lug with insulating cover, TF100 is provided as a feed which clamps onto 3/4" length of bare conductor and which will accept wires up to #6 flex. Rated at 100 amperes it is used in pairs for higher ampere requirements. The conductor may also be fed by securing a standard terminal lug to the 1/4" hole in the end of the conductor and taping over it for insulation.

End Cover

The end cover, TN100C, required to complete the insulation of the conductor, is a sleeve extending 1/2" over the end of the bar. As an alternative, the conductor may be cut back so that the regular insulating cover extends 1/2" beyond the end of the conductor. This end cover may also be used as a transfer end cap having a 1/8" tolerance with a 1" gap setting on interlocks.
Saf-T-Bar Collectors

Series T Collectors in the 50 amps configuration are available as TE501CR/2CR/3CR using copper graphite contact material. This is a self lubricating contact for quiet long life operation.

The TE30-1/2/3 collector uses Chromium Copper contact material and the short length of the shoe allows use on curves down to 12" radius. The collectors are supplied as single phase units complete with tow lines and a 3-phase unit i.e. TE503CR would be supplied as 3 pcs. TE501CR.
www.conductix.us

Conductix-Wampfler
10102 F Street
Omaha, NE 68127
USA

Customer Support
Phone: 800 521 4888
Fax: 800 780 8329

Phone: 402 339 9300
Fax: 402 339 9627

info.us@conductix.com
www.conductix.com