AI-20

Amphenol Industrial

Mfg by EAXTRON

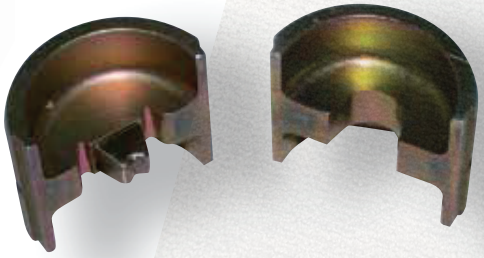
EAXTRON W-CRIMPERS

Safe

Effortless

Efficient

Durable



Amphenol Industrial Operations
20 Valley Street
Endicott
NY 13760

CRIMPING RECOMMENDATIONS

Amphenol Industrial's Effortless Din Connector

RANGE 160A/320A/430A

amphenol-industrial.com/eaxtron

CRIMPING RECOMMENDATIONS

For Optimal performance we recommend W-Crimping

Please note that W-crimping offers the best performance, and is necessary to fulfill UL, CSA & EN1175-1 requirements.

Just as the choice of materials is crucial in reducing electrical resistance, the proper crimping of the contacts is necessary to achieve stable maximum conductivity. We chose highly conductive copper, plated with 6µ of silver to ensure maximum contact conductivity. A poor crimp may result in abnormal heating. Therefore we recommend the use of a fine crimping tool to allow W/ crimping, which facilitates the proper shaping of individual cores and ensures an air-tight connection. This method increases cable protection, and decreases the likelihood your cables will suffer from internal corrosion. Corrosion, as well as improper crimping, and broken wires, can cause an increase in contact resistance.

We supply such tools on request, using part number E2CT1000 (Lithium crimper) or CCT1000 (Hand crimp tool). Please reference the following chart for W dies.

- *Before crimping, always check that the dies and the contacts are clean and undamaged.*
- *Be careful to avoid bending the contact while crimping*
- *Once your contacts are crimped, check that they are properly locked into the contact loader before screwing on the cable clamps and finishing with connector installation.*

W DIE SIZES
AWG 4
AWG 2
AWG 1/0
AWG 2/0
AWG 3/0 – 4/0

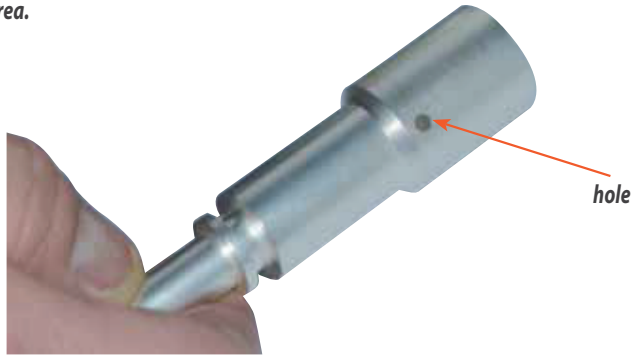
W CRIMPING	*SOLDERING*
Prevents corrosion	*Copper strands harden and become brittle*
Avoid perforation of the contact	*Copper strands become fragile and air pockets may form*
Higher rate of conductivity	*Risks of tin flux and flow, which may damage the copper strands, and limit conductivity*
Improves cable lifespan	*Fragile Angular cable lugs*
Prescribed by Amphenol Industrial Operations	*Tin conductivity of tin is 7 times lower than that of copper*
Requested by OEMs	*Not in compliance with CSA, UL & EN1175-1 testingsand forbidden in some industries (aerospace)*

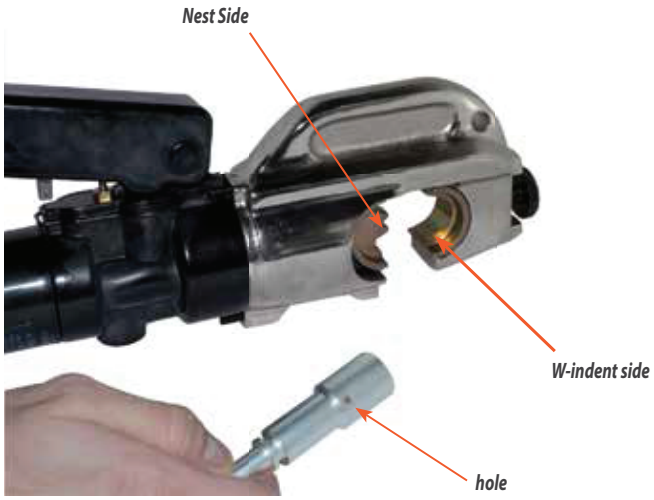
CRIMPING INSTRUCTIONS: 4/0

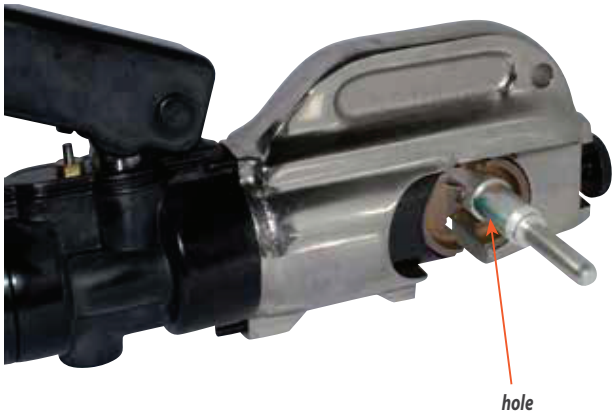
For Optimal performance we recommend W-Crimping

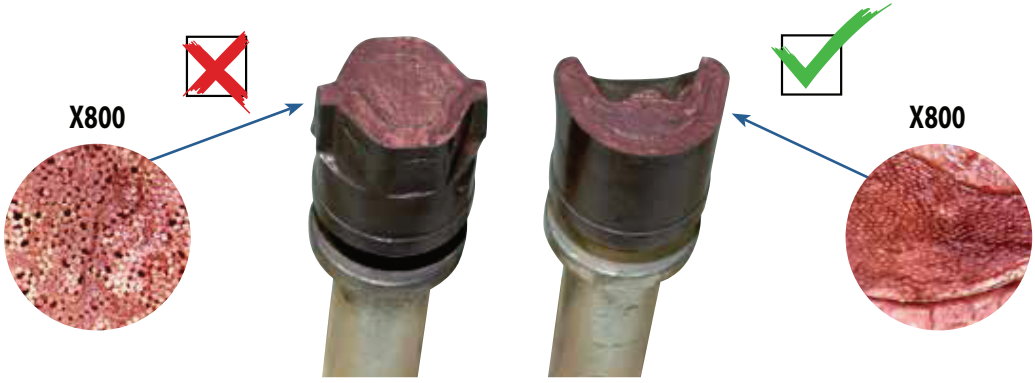
The 4/0 contacts are notably different in that they have a small hole in the contact lug area.

While crimping your 4/0 contacts, make sure this hole is positioned to face the middle of the «nest side» of the crimping die as shown in the pictures below:







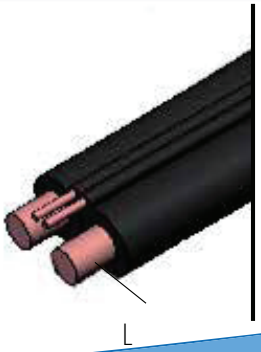


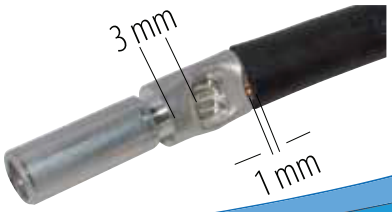
The W-crimping (on the right), allows a gas-tight crimp, avoiding oxidation. The strands are uniformly distorted and squeezed together, granting the best conductivity.

Stripping dimensions

Strip wires to the specified lengths :

AWG 6 – 3/0 ☒ L = 20 mm / 0.79 in
>4/0 ☒ L = 25 mm / 0.98 in





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YOUR INDUSTRY CONNECTION
MHEDA
Material Handling Equipment Distributors Association