RJ45 – EtherCon Series

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- **What is the EtherCon Series ?**

  A range of new ruggedized RJ45 data connectors and cable carrier system, especially developed to provide solutions for data transfer in harsh and demanding applications.

- **What is a typical application ?**

  Ethernet networking in audio and stage production.
  DMX lighting protocols.
  Industrial and commercial networking.
  Outdoor Internet access environments.

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- **What does the EtherCon Series consists of ?**

  A male cable end carrier
  available in nickel or black

  Three assembled female chassis receptacles
  with four different terminations:
  IDC-Krone type,
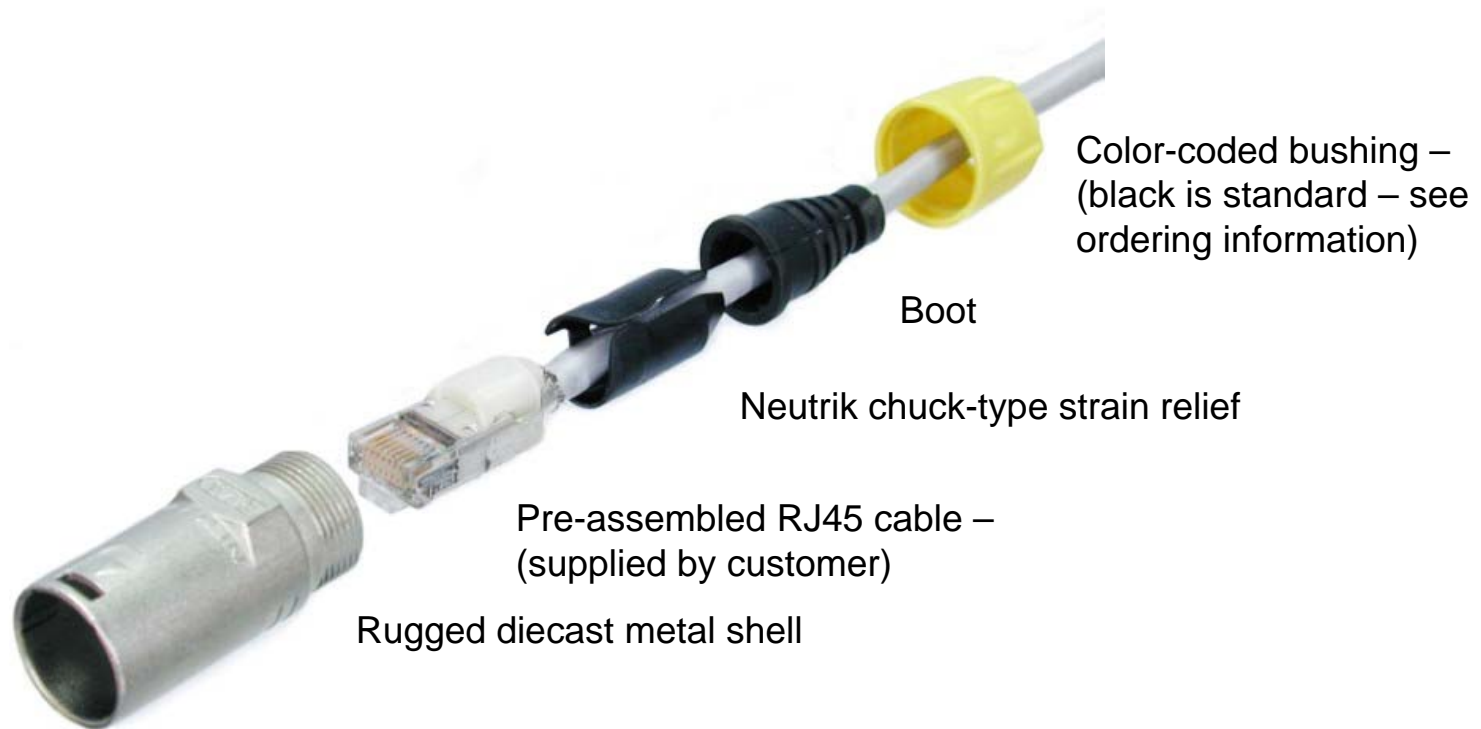 IDC-110 punchdown,
  horizontal or vertical PCB mount

- **Future versions ?**

  CAT 6 receptacle
  Waterproof version

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EtherCon cable carrier – exploded view

Color-coded bushing – (black is standard – see ordering information)

Boot

Neutrik chuck-type strain relief

Pre-assembled RJ45 cable – (supplied by customer)
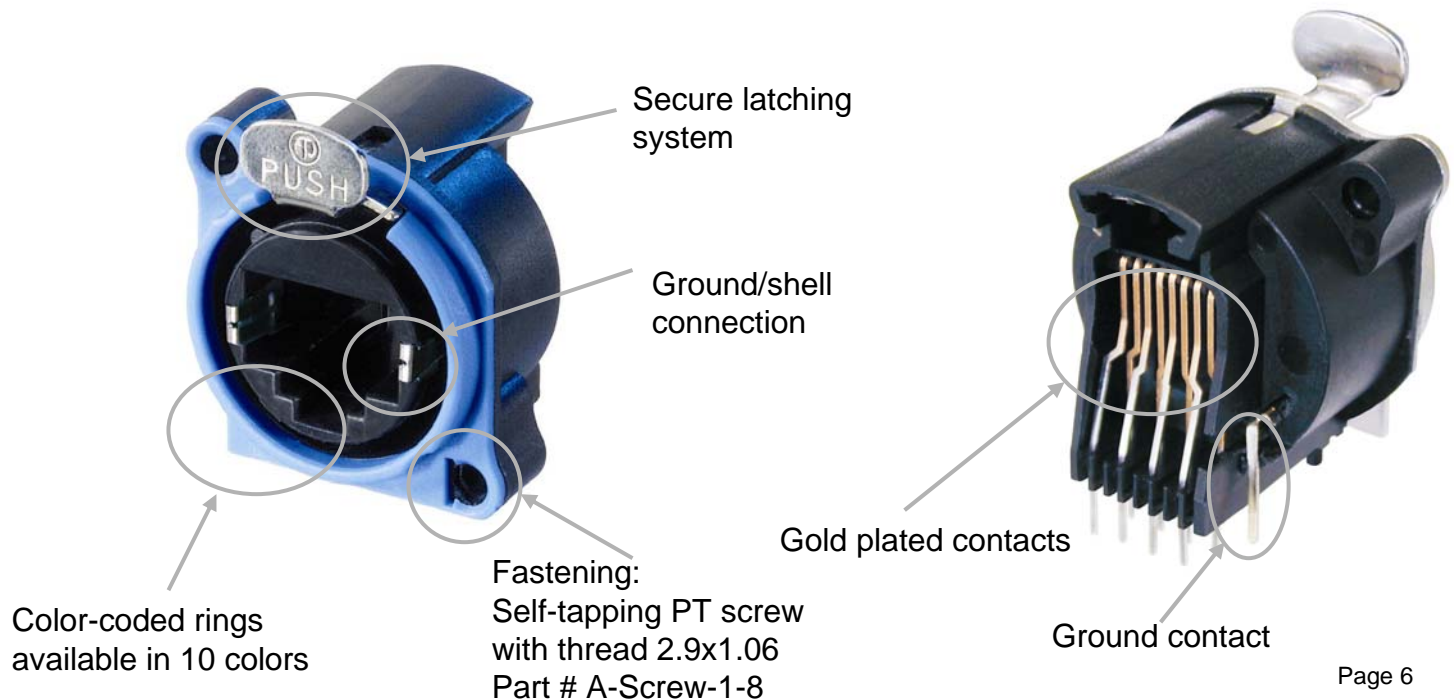
Rugged diecast metal shell

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Horizontal and vertical pcb mount receptacle

Chassis connectors are based on the Neutrik A/B-Series of XLR receptacles with the secure latching system

Secure latching system

Ground/shell connection

Gold plated contacts

Color-coded rings available in 10 colors

Fastening:
Self-tapping PT screw
with thread 2.9x1.06
Part # A-Screw-1-8

Ground contact

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D size receptacle with vertical and IDC termination

Chassis connectors with unified D size metal flange, mounts in the same hole as our D series XLR, Speakon, Powercon, ¼" locking jacks and BNC series.
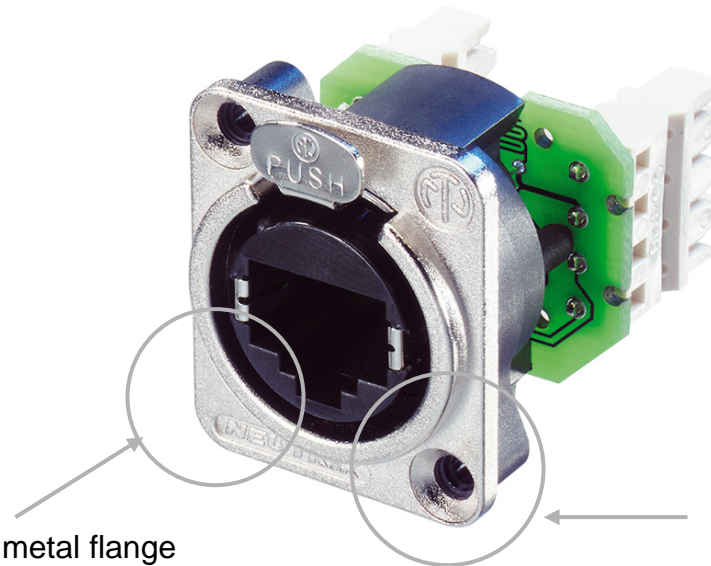
Unified **D** sized metal flange

Fastening with self-tapping PT screw type 2.9x1.06, 10 mm long tri-rondular configuration mounting screws are not included

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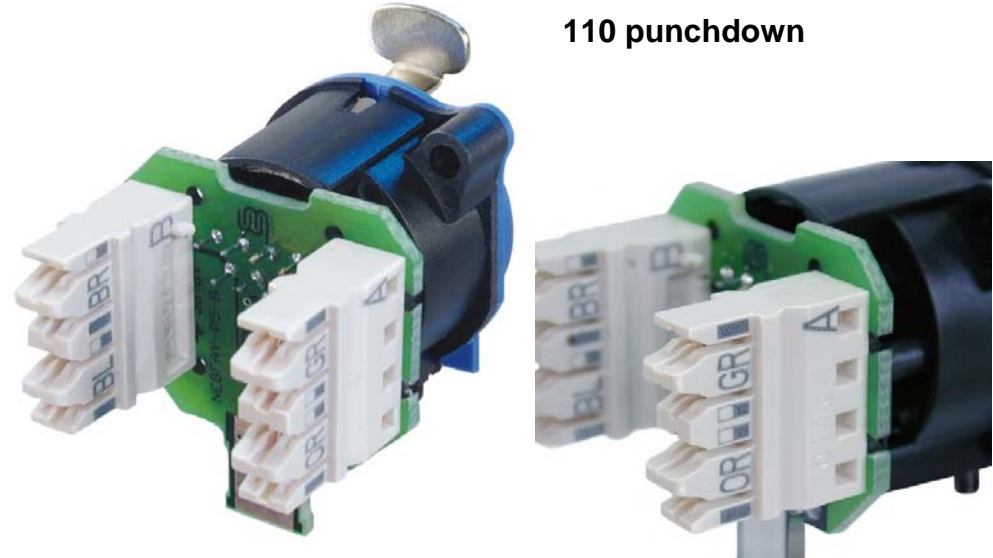## A/B or D size receptacles with IDC termination
Krone type or 110 Punchdown

Krone type punchdown

110 punchdown

Ground/shield connection

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Features and benefits

A/B and D size receptacles accept both fully assembled
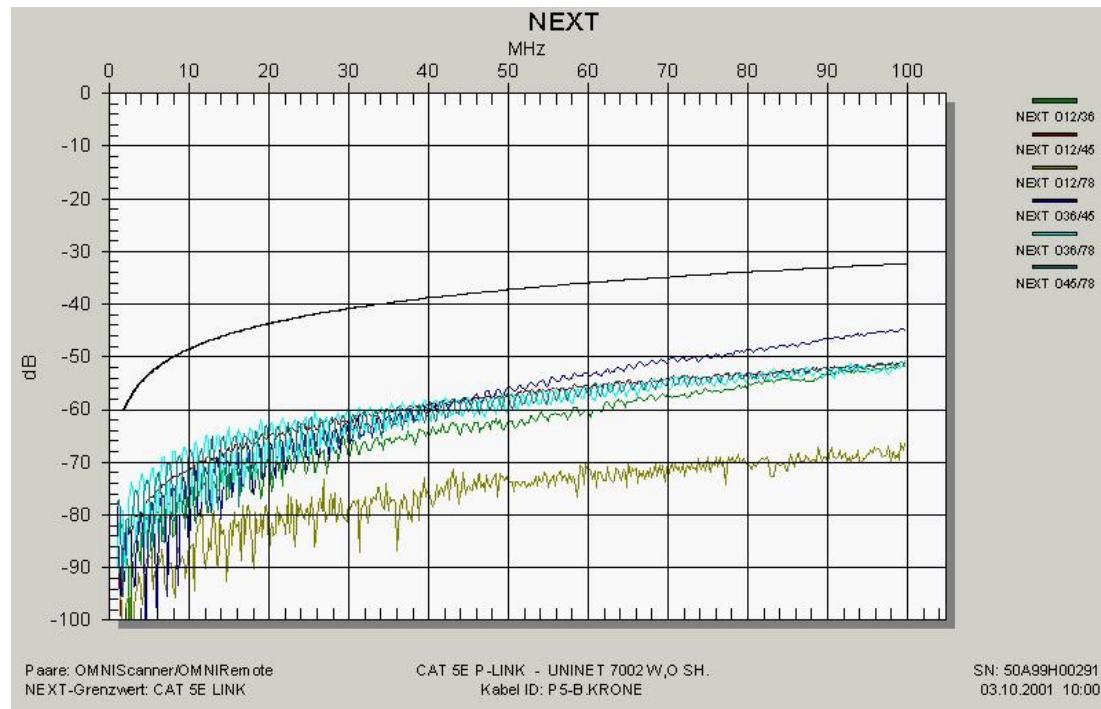EtherCon cable carrier or standard RJ45 plug.

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Features and benefits

A/B and D size receptacles comply with Class D (pcb mount) or Cat 5e (IDC terminals) according TIA/EIA 586B and ISO/IEC 11801.

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Features and benefits

A/B and D size receptacles accept most common RJ45 plugs.
Ease of assembly makes cable carrier easily field attachable.
Designed to prevent damage to the plastic components of standard RJ45 connectors.
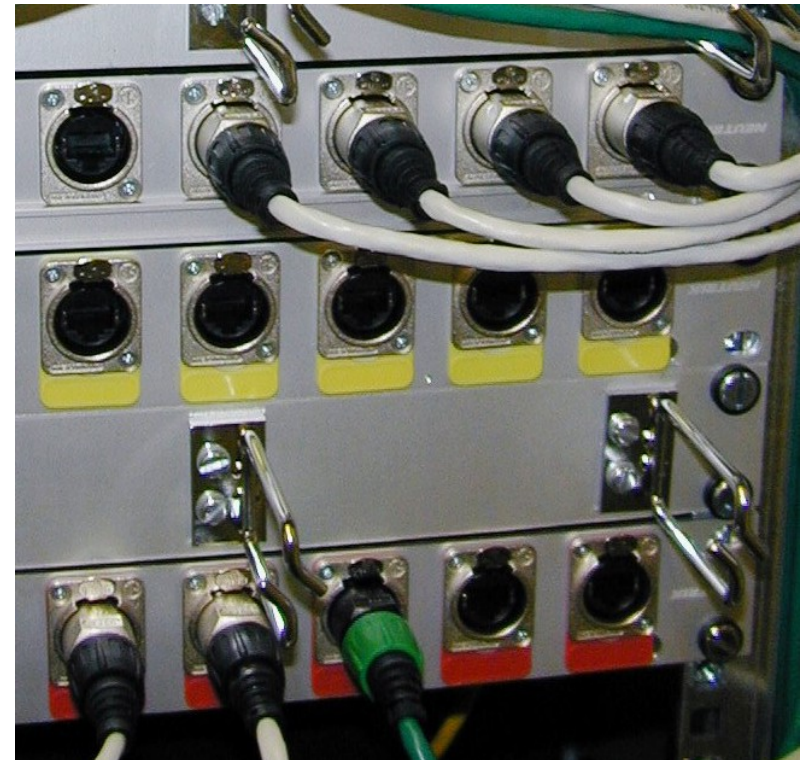Diecast metal shell for carrier for pre-assembled RJ45 cables.

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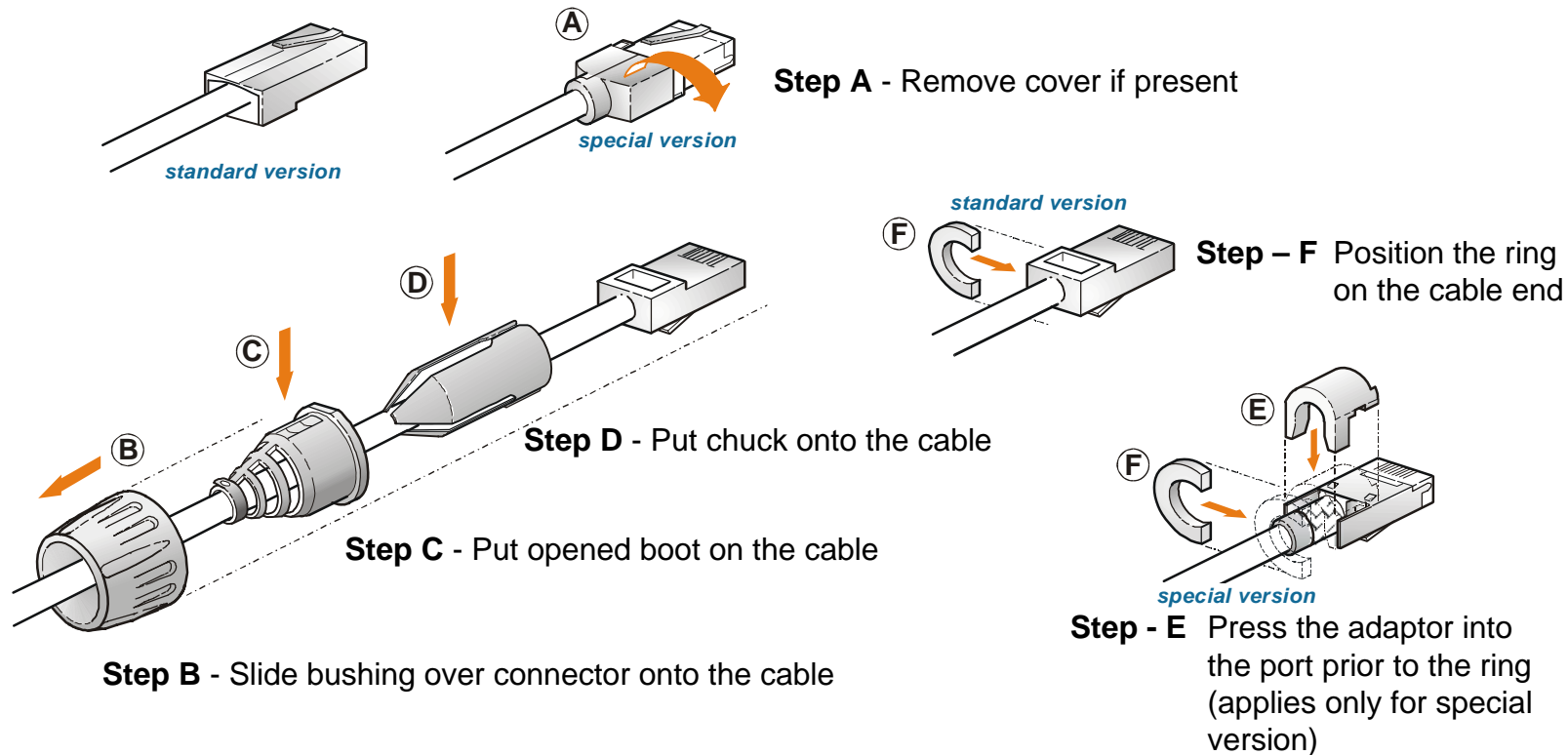
Examples of use
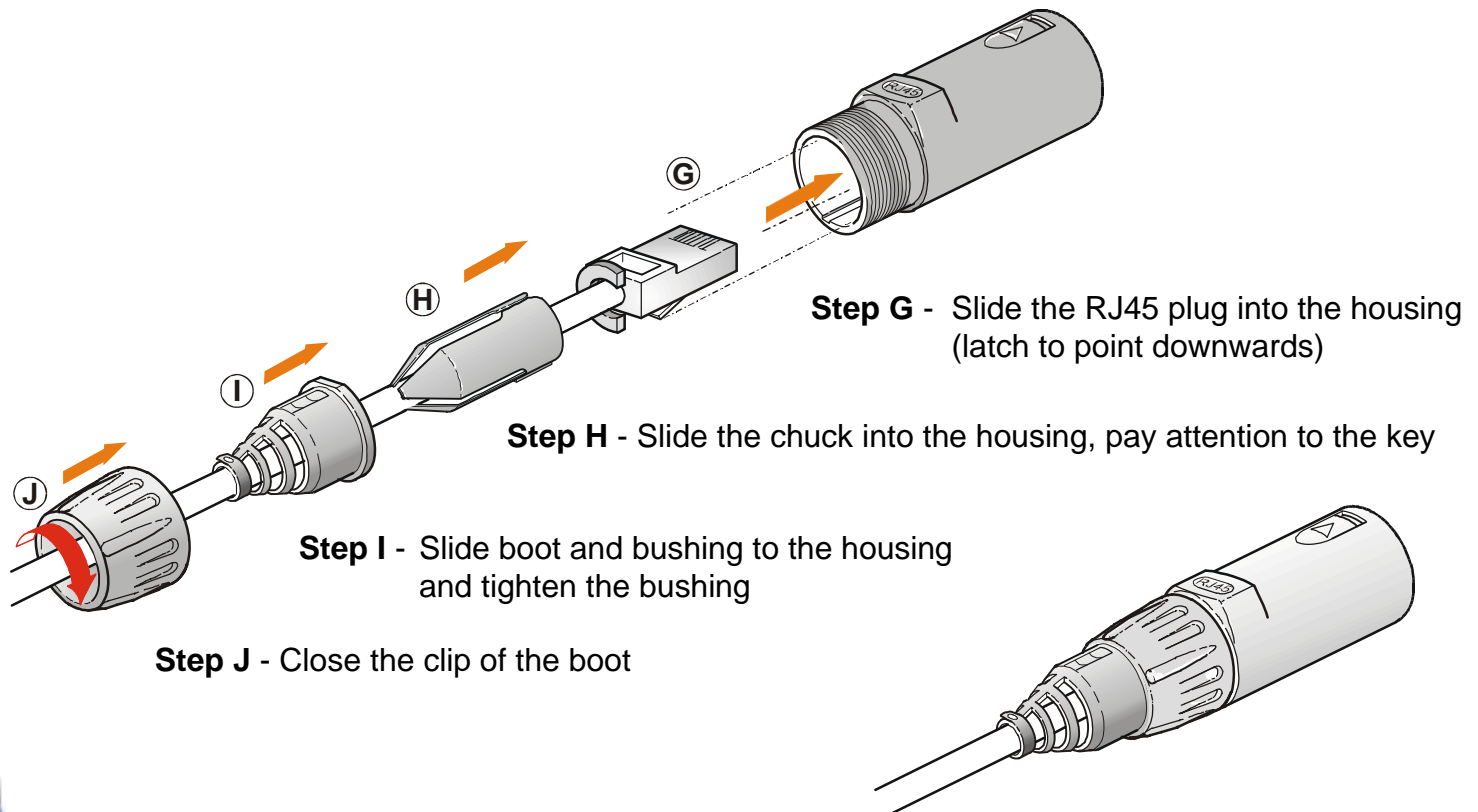
Wall plate　　　　　　**19" Rack**

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How to assemble the cable carrier – page 1 of 2

standard version

special version

Step A - Remove cover if present

standard version

Step – F Position the ring on the cable end

Step D - Put chuck onto the cable

Step C - Put opened boot on the cable

Step B - Slide bushing over connector onto the cable

special version

Step - E Press the adaptor into the port prior to the ring (applies only for special version)

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How to assemble the cable carrier – page 2 of 2

Step G - Slide the RJ45 plug into the housing
(latch to point downwards)

Step H - Slide the chuck into the housing, pay attention to the key

Step I - Slide boot and bushing to the housing
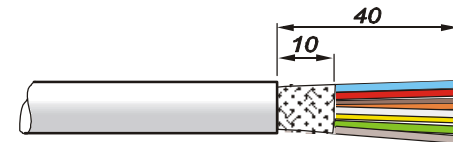and tighten the bushing

Step J - Close the clip of the boot
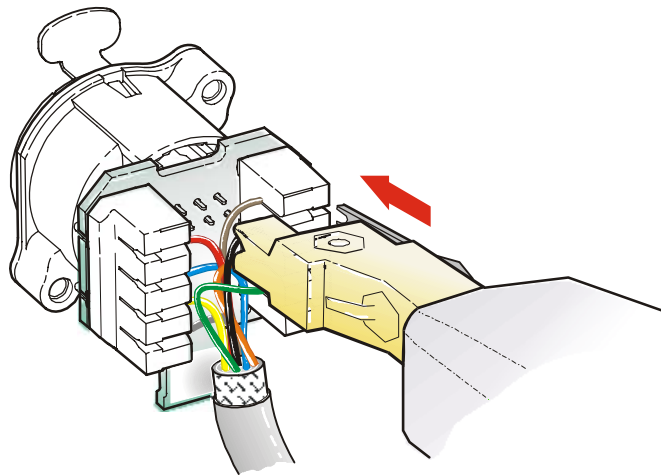
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How to assemble A/B and D size IDC receptacles – page 1 of 2

Step 1 - Slide grounding plate onto cable
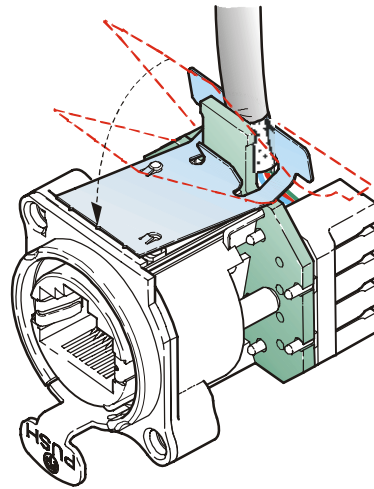
Step 2 - Strip cable accordingly

Step 3 - Terminate wires with punch down tool
  - Krone tool for NE8FAV-YK
  - 110 punch down for NE8FAV-Y110
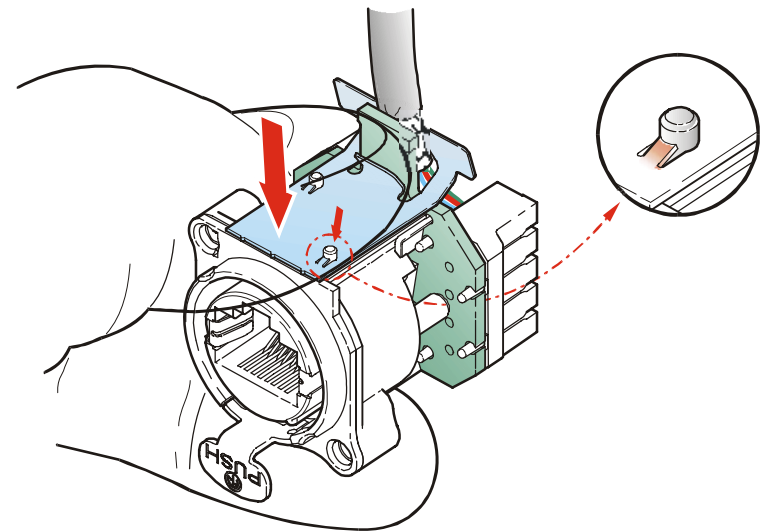   Make sure that the twisted pairs are
    not untwisted more than 13 mm

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How to assemble A/B and D size IDC receptacles – page 2 of 2

Step 4 - Position the plate on the receptacle with cable shield contacting the dedicated pcb area
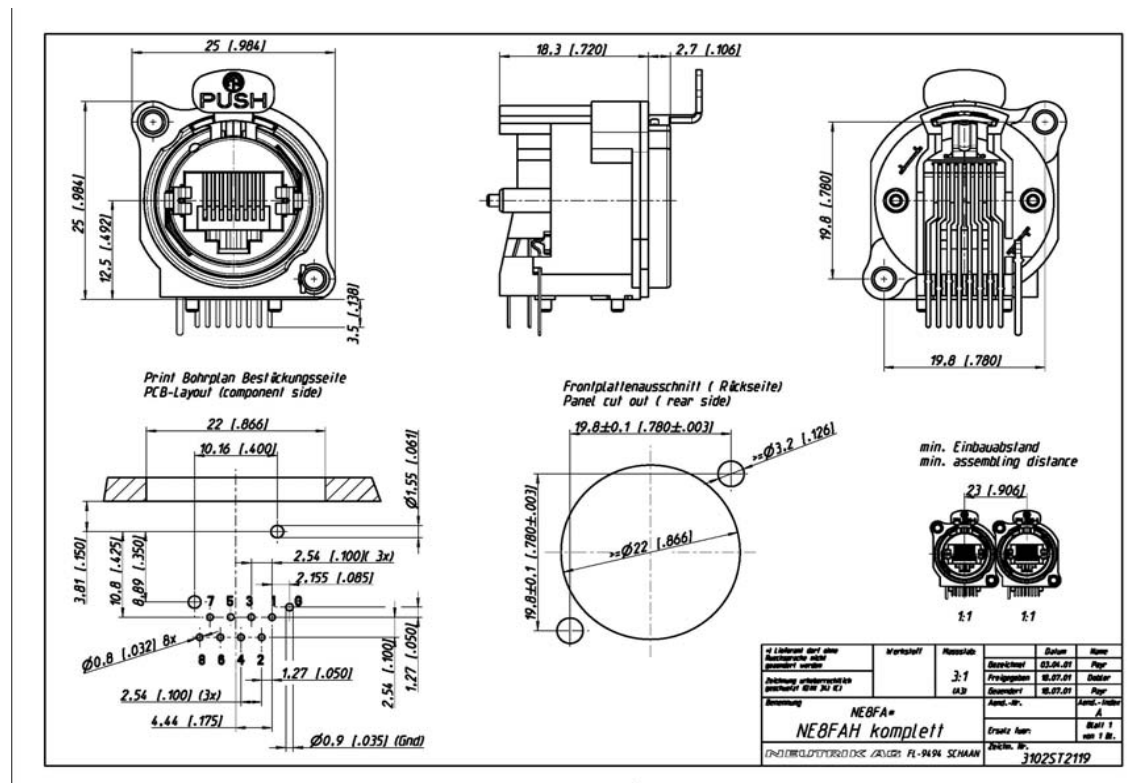
Step 5 - Press the grounding plate down until latches snap into connector pins (see red arrows)
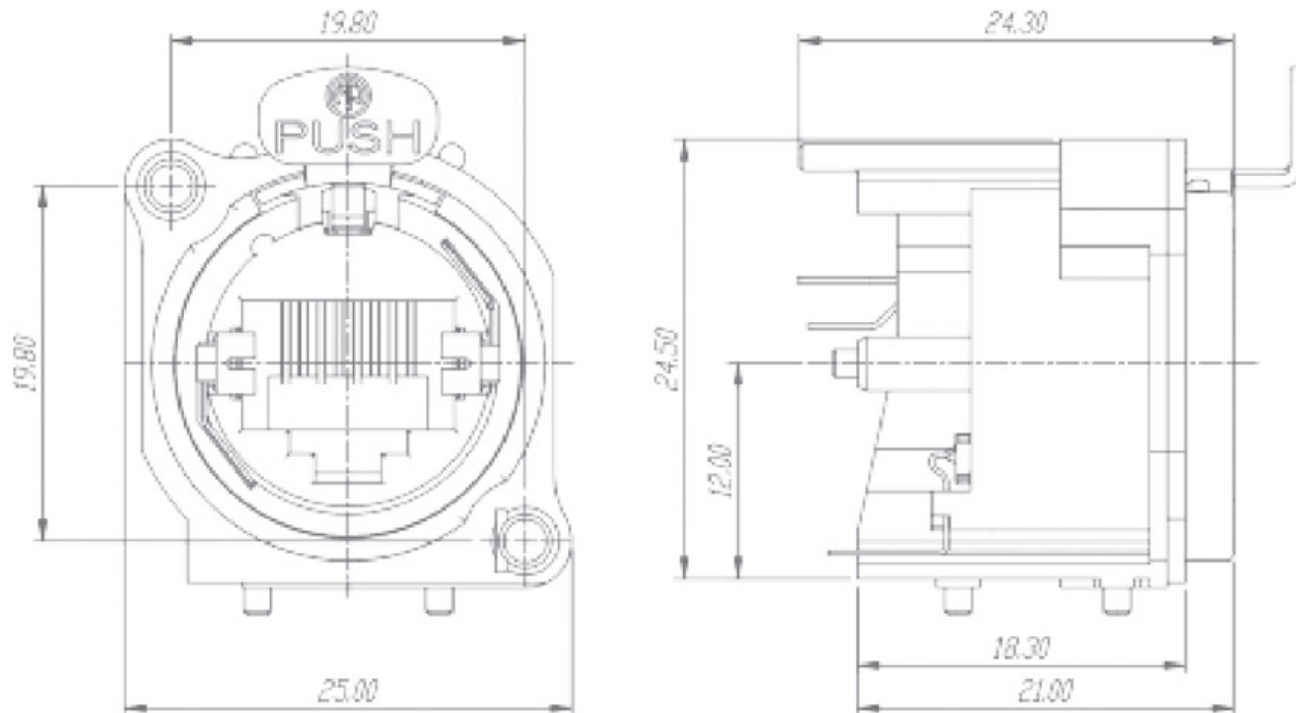
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Dimensional drawing NE8FAH – available in .pdf, .dwg or .dwf formats on www.neutrik.com

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Dimensional drawing NE8FAV – available in .pdf, .dwg or .dwf
formats on www.neutrik.com

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Dimensional drawing NE8FAV-YK - available in .pdf, .dwg or .dwf formats on www.neutrik.com

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Dimensional drawing NE8FDV-YK – available in .pdf, .dwg or .dwf
formats on www.neutrik.com