

Mini PushPull ix Industrial®

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**Robust receptacle with
five THR shield contacts**



**Cat.6_A performance for
1/10 Gbit/s Ethernet**



**Resistant to shock and
vibration, designed for
5000 mating cycles**



**Continuous shielding and
robust cable attachment**



**Two snap-in metal hooks
ensure a safe connection
of receptacle and plug**



**70% reduced size
compared to RJ45**

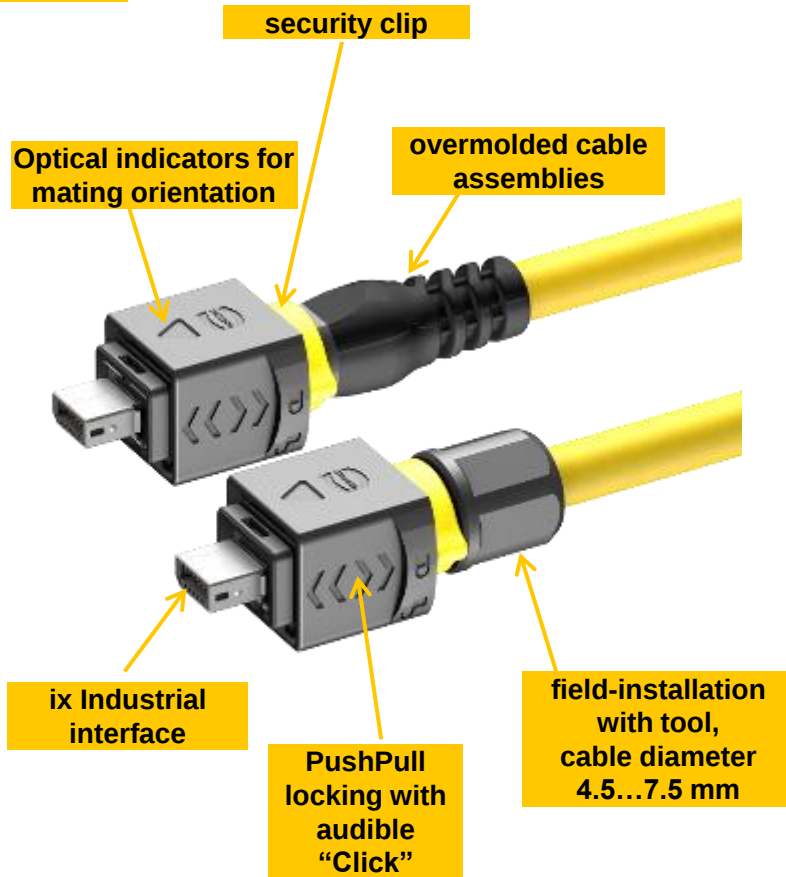


ix Industrial IP65/67

- Miniaturized data connectors also need miniaturized IP65/67 housings
- Mini PushPull is the new IP65/67 housing for miniaturized data connectors
- Mini PushPull comes with all features of the well-known PushPull RJ45 but is approx. 30% shorter



Mini PushPull ix Industrial



Benefits of the product

- PushPull locking
- IP65/67
- inserts to be realized:
ix Industrial type A and B
- 10 GBit/s Ethernet / Cat 6_A
- AWG 26-28 (10 poles) stranded
- Optical indicators for mating orientation
- Integrated “security clip” in yellow color
avoids unwanted operation

Applications

Applications where dust, dirt, strong mechanical and environmental requirements occur

- Future Ethernet Connectivity for Automation, Robotics, Machinery, Energy, Transportation, Data Networks
- Can replace current interfaces like RJ45, USB, FireWire

Industrial

- Robotics
- Industrial camera system for monitoring process technology systems
- Offshore wind power plants
- Traffic technology
- Field of automation and device construction

Communication applications

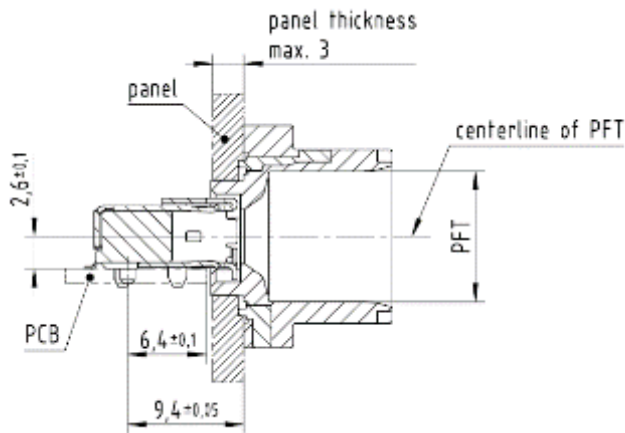
- Outdoor Wi-Fi routers
- Base stations
- Surveillance cameras



Design-In Support

Mini PushPull compact housing
can be combined with all
[HARTING ix Industrial PCB jacks](#)

- angled horizontal/vertical, vertical
- a-coded / b-coded



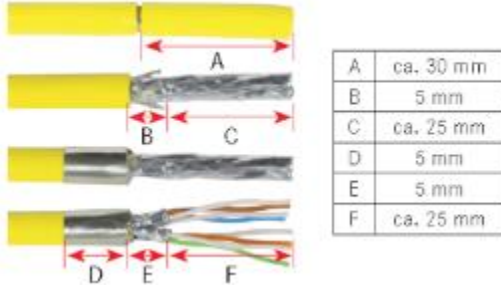
Assembly process (shortened)

[Complete Manual](#)

1. Push the cable gland and housing over the cable sheath.



2. Strip cable with stripping tool 09 45 800 0000 and prepare shielding. Then fix the cable braid with copper foil 09 45 800 0200.



3. Cable termination to the IDC unit



4. After everything is set cut excess wires along cable guide edge.



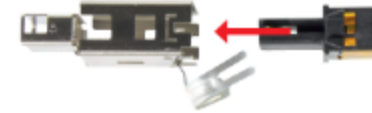
5. Pre-position the two cable guides in the correct arrangement in the IDC unit. Press them on temporarily with your fingers.



6. Insert the IDC unit with the temporary connection of the cable guide into the hand tool as far as it will go. Then press the hand tool together.



7. Push the assembled IDC unit into the shield shell until it engages with an audible “click”.



8. Place the assembly into the crimping mechanism of the hand tool as far as it will go. Squeeze the hand tool all the way together.



9. Push the contact insert into the housing and engage it with an audible “click”. Then tighten the cable gland.



Mini PP ix Industrial Type A overmolded



**MPP ix Type A –
Data transmission**

Cable assemblies

- HARTING Cat.6_A PVC 4x2xAWG26/7
 - -20°C ... +80°C
- HARTING Cat.6_A PUR 4x2xAWG26/7
 - -40°C ... +80°C
 - Oil resistant
- HARTING Cat.6_A PVC outdoor 4x2xAWG26/7
 - -20°C ... +80°C
 - UV Resistant
- Sample Stock for 0.5m, 1.0m and 5.0m
- In Scope: Cat.5e Variant for Drag Chain application

Mini PP ix Industrial Type B overmolded



**MPP ix Type B –
Signal transmission**

Cable assemblies

- HARTING Signal PUR 10xAWG26/19
 - -40°C ... +80°C
 - Resistant to
 - Oils and Fats,
 - UV
 - Oxygene and ozone
 - Sea and waste water
- Sample Stock for 0.5m, 1.0m and 5.0m
- In Scope: PVC Variants

Product overview

Device Integration with PCB-jack

Compact housing ix Industrial
with ix Industrial PCB jack
angled horizontal, angled vertical, vertical



p/n: [0951 521 0001](#)

p/n: [0945 282 xxxx](#)

Protection cover IP65/ IP67

Device side p/n: [0951 800 0003](#)

Plug side p/n: [0951 800 0002](#)



Crimp tool

Crimp Tool basic body
p/n: [09 45 800 0185](#)

Insert for ix Industrial
p/n: [09 45 800 0186](#)

Device Integration with Panel feed through

Panel feed through with
2x ix Industrial jack



Type A – Ethernet [0951 221 0001](#)

Type B – Signal [0951 221 0002](#)

Plug connector for field installation

Type A, IDC, AWG26-28 [0951 121 0001](#)

Type B, IDC, AWG26-28 [0951 121 0002](#)

Cable assemblies

Type A, PVC, AWG26-28 [33 48 343 4805 xxx](#)

Type A, PUR, AWG26-28 [33 48 343 4804 xxx](#)

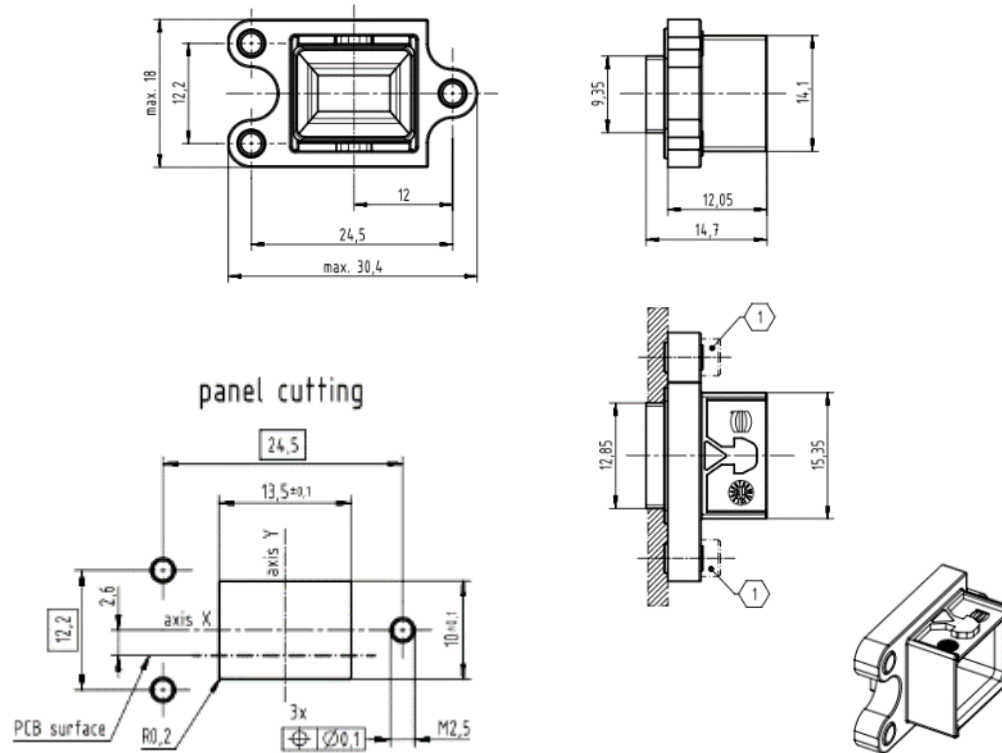
Type A, PVC out, AWG26-28 [33 48 343 4806 xxx](#)

Type B, PUR, AWG26-28 [33 48 353 5A21 xxx](#)



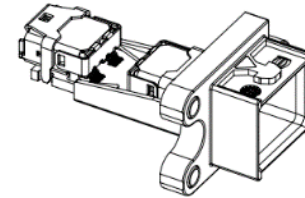
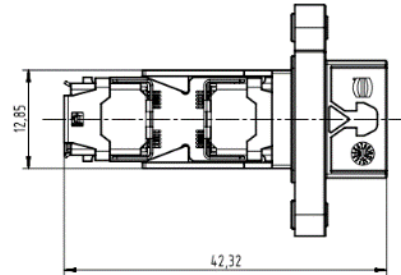
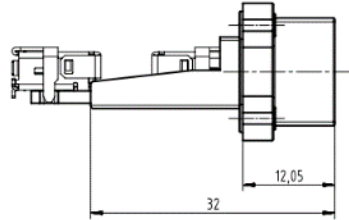
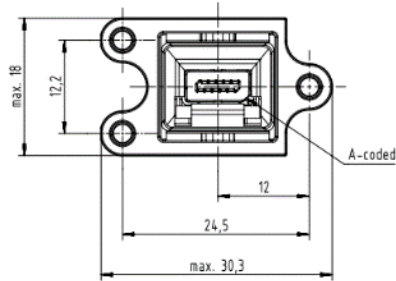
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Device Side



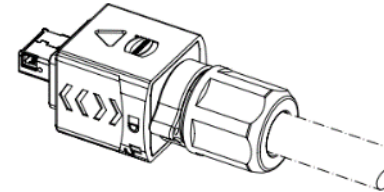
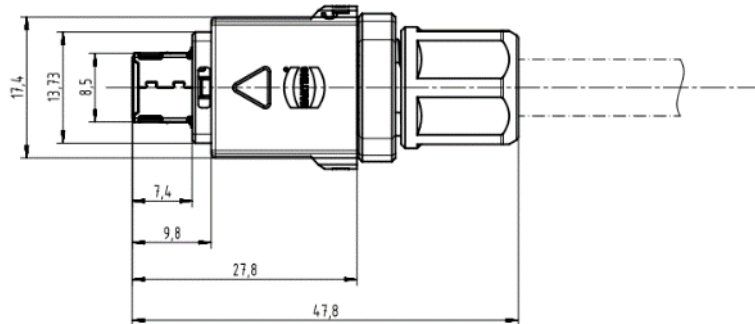
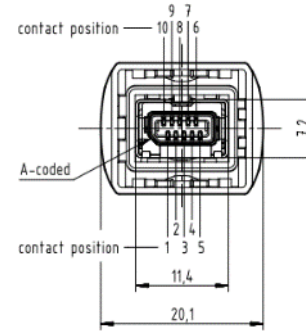
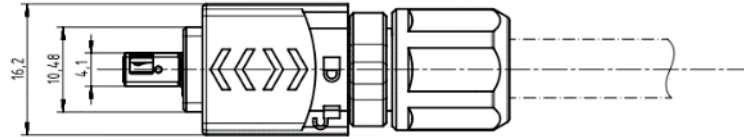
Mini PushPull ix industrial

Device Side



Mini PushPull ix industrial

Cable Side





Pushing Performance

Since 1945

**Thank you
for your attention!**