

**PH 180
cables**

Explore different cable families for your application

- > **Ethernet cables** *Cat 5e, Cat 6, Cat 6A and Cat 7*
- > **PROFIBUS**
- > **CAN-Bus**
- > **DeviceNet**
- > **Fieldbus**
- > **CCTV** *camera systems*



Data communication cables *with functional integrity during fire*

The market requires more and more data communication cables, which are suitable to transmit data without and also with fire influence. Such applications are in tunnels, in public buildings, in offices and also in a wide range of marine installations like cruise-liners, oil- and gas platforms or wind farm infrastructure.



Gotland ferry Sweden
PH 180 cables are used on two new ships



German shipyard
PH 180 cables are installed on first new vessel of Endeavor class



German shipyard
PH 180 cables on first new vessel of Global class



Rolling stock cabling
Also available is a design of a PH 180 cable for installation in railways



Offshore wind farm Krigers flak
The transformer station is equipped with PH 180 cables



Al Khalifa project
The PH 180 cables are inserted in Tilted Interchange Tunnel, the Qatar Academy Tunnel, as well as in the Bul Hanine project and the Al Bustan tunnel project in Qatar



Structured building cabling
Available is a design of PH 120+ cables for safety installations in buildings

Cable design

The main feature of the new designed cables, is a special kind of fire barrier for the single wires of the data transmission pair and an additional fire barrier over the electrical screen. Different additional features can be added to the design, for example

- FRNC sheath
- CPR approved sheathing material
- Sheathing material acc. to marine IEC standards
- Additional armor

Ethernet cables

The Ethernet cables are available with

- Wire designs AWG 22, AWG 23 and AWG24
- Solid or stranded wire
- Different transmission categories acc. to the standard IEC 61156-5
- With or without armor
- Different sheathing materials
- Different sheath colors

All cables are tested for the functional integrity during fire for 180 minutes
acc. to the standard EN 50200 with following characteristics:

| Data transmission rate without fire | Data transmission rate under fire condition |
|-------------------------------------|---|
| Cat 5e | Cat 5e |
| Cat 6 | Cat 6 |
| Cat 6 _A | Cat 6 _A |
| Cat 7 | Cat 6 _A |

› For more detailed information see the BizLink product report 04/2023– Data cables with functional integrity

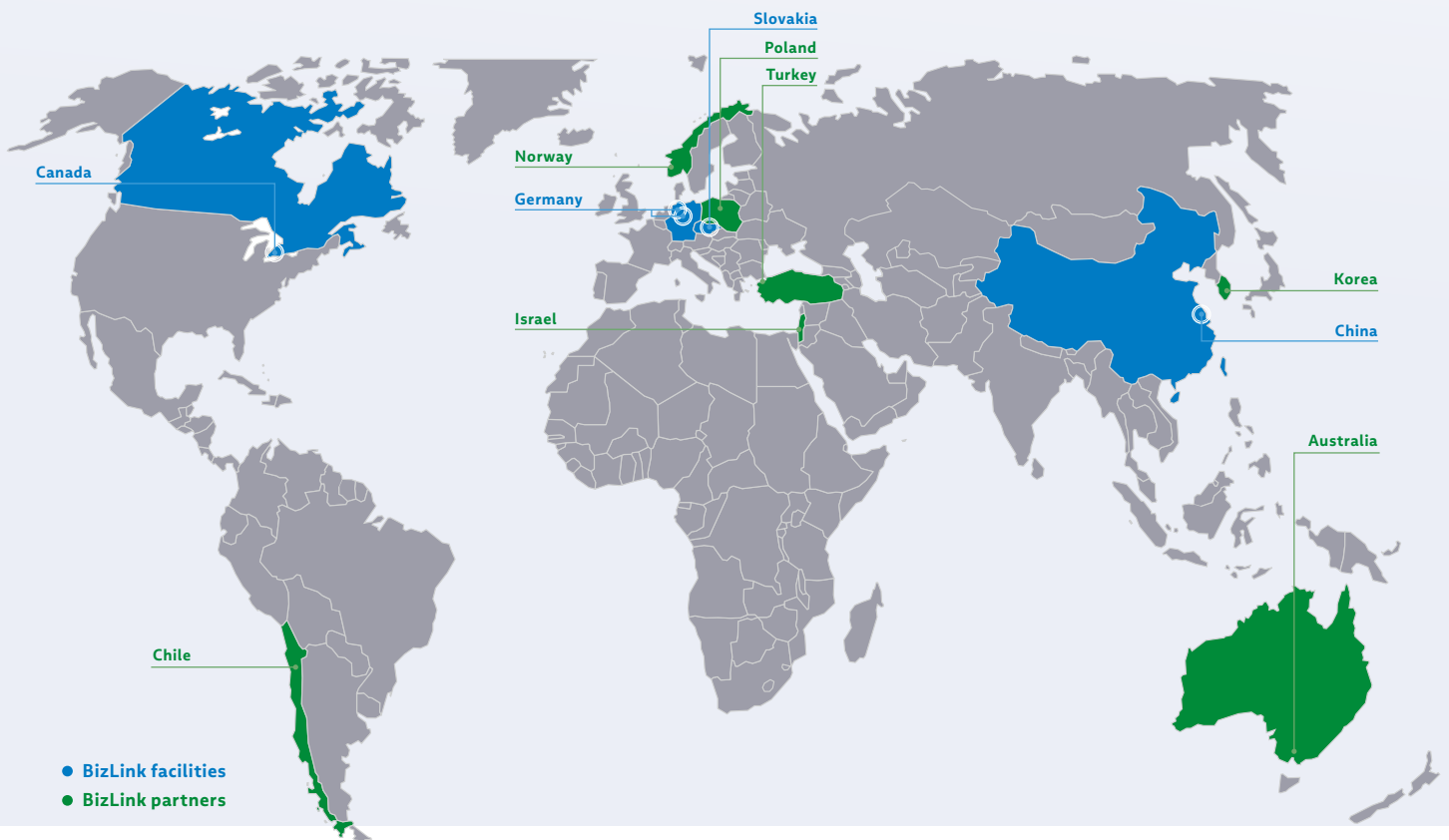
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