


 The Belcom logo features the word "Belcom" in a bold, black, sans-serif font. To the right of the text is a red, curved graphic element that resembles a stylized 'B' or a swoosh. The background of the entire page is a blue-toned industrial scene with various mechanical parts and cables, overlaid with a faint, repeating pattern of hexagons and technical terms related to automation and manufacturing.

# Single Pair Ethernet

## *for industrial communication*

### 1 Gbit/s over 1-pair balanced transmission channels

Ethernet is the leading network protocol in LAN applications and is increasingly gaining ground in new areas. Initially, twisted pair cabling relied on two-pair cables. This utilized a wire pair as a transmission and reception line (100 BASE-TX). This principle, limited to a transfer rate of 100 Mbit/s, still represents the main transfer principle in industry and automation systems technology today and is often achieved using starquad cable designs. In order to achieve higher data rates of 1 Gbit/s and 10 Gbit/s, a transmission technique was selected, which requires four balanced pairs in connection with 8-pole connectors.

The new FieldNET SPE cable family offers a solution for every application. According to the IEC 61156-x standard, the product portfolio comprises installation, trailing, torsion and robotic cables as well as special solutions which combine the single pair Ethernet features with other elements to form hybrid cables.

- Performance up to 1 GBit/s at 600MHz
- Data transmission up to 40 meters (1 GBit/s) and up to 1000 meters (10 MBit/s)
- Suitable for drag chains and torsional applications
- Oil resistant
- Designed for harsh industrial environments
- Support of PoDL (Power over Data Line)
- Various jacket materials available
- UL and CSA / CPR approved

**FieldNET**  
Automation Cables



INDUSTRIAL  
PARTNER  
NETWORK

**Belcom** | Cable excellence engineered through quality

T: 01279 871150 | E: [sales@belcom.co.uk](mailto:sales@belcom.co.uk) | [www.belcom.co.uk](http://www.belcom.co.uk)

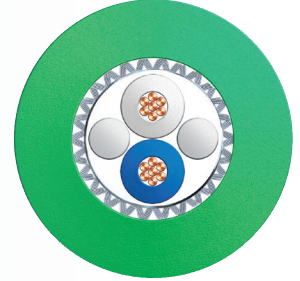
## SPE - 1x2x18AWG PUR

Part Number	Type	Specification
SPE118-UAR	18/1awg Single Pair Ethernet Trailing cable UL 21223 80°C 600V IEC 60332-1-2 PUR Green	<a href="#">Link</a>



## SPE - 1x2x26AWG PUR

Part Number	Type	Specification
SPE126-UAR	26/7awg Single Pair Ethernet Trailing cable UL 20233 80°C 300V IEC 60332-1-2 PUR Green	<a href="#">Link</a>



## SPE - 1x2x22AWG PUR

Part Number	Type	Specification
SPE122-UAR	22/7awg Single Pair Ethernet Trailing cable UL 20223 80°C 300V IEC 60332-1-2 PUR Green	<a href="#">Link</a>



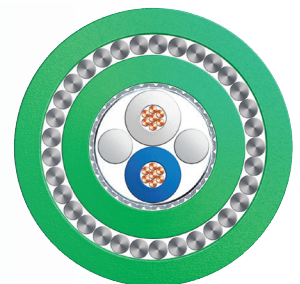
## SPE - 1x2x22AWG LSZH

Part Number	Type	Specification
SPE122-UAZH	22/7awg Single Pair Ethernet Fixed Installation UL 21286 80°C 300V IEC 60332-1-2 LSZH Green	<a href="#">Link</a>



## SPE - Armoured (SWA) 1x2x22AWG LSZH

Part Number	Type	Specification
SPE122-WAZH	22/7awg Single Pair Ethernet Fixed Installation LSZH Fire-Fighter IEC 60332-1-2 LSZH DataGuard SWA Green	<a href="#">Link</a>



## SPE Hybrid - 1x2x24AWG + 1x2x18AWG PUR

Part Number	Type	Specification
SPE124-418UAR	1x2x24awg + 4x18awg Single Pair Ethernet Hybrid Trailing cable UL 20233 80°C 300V IEC 60332-1-2 PUR Green	<a href="#">Link</a>

