

IE-S1DS2LE-500**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Single pair Ethernet is a technology that only requires one pair of wires to transmit data and power. The resulting benefits will make SPE the preferred network at the field level and beyond.

Advantages of Single Pair Ethernet

- Consistent: Single Pair Ethernet enables uniform Ethernet-based communication from the sensor to the cloud
- Future-proof: key technology for Industry 4.0 and IIoT
- Flexible: ranges of up to 1000 m and transmission properties of up to 1 Gbps enable use across applications
- Innovative: lighter, less space required, and reduced installation effort

General ordering data

Version	System cable, Single Pair Ethernet (SPE), T1-B, LSZH, 500
Order No.	2924350000
Type	IE-S1DS2LE-500
GTIN (EAN)	4099986624597
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Length	500 m	Length (inches)	19,685.039 inch
Net weight	10,786.5 g		

Temperatures

Operating temperature	-20 °C...60 °C
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Technical specifications for cable

Colour coding	white / blue	Configurable cable length	No
Halogen	halogen-free, according to IEC 60754-2, halogen-free, according to IEC 60754-1	Insulation	PE
Number of poles	2	Number of wires	2
Resistance to spread of flame	in accordance with IEC 60332-1-2	Sheath material	LSZH
Sheathing colour	black	Shielded	Yes
Suitable for cable carriers	No		

Cable specific standards

Impervious to smoke	According to IEC 61034
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Standards

Impervious to smoke	According to IEC 61034
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Cable structure

Arrangement of wire cores	Twisted pair	Colour coding	white / blue
Complete shielding	Shielding braid made from copper wiring	Cross-section	1 x 2 x AWG 22/7 - 0.35 mm ²
Insulation	PE	Insulation cross-section	1.7 mm
Material sheath	LSZH	Number of wires	2
Sheath diameter, max.	5.1 mm	Sheathing colour	black
Shielding	S/FTP	Strands	7
Tensile force, max.	25 N	Wire pair shielding	Aluminium foil

Electrical properties of cable

Category	T1-B	Coupling attenuation 1 to 600 MHz	Type I
Coupling attenuation up to 1000 MHz	85 dB	Separating class according to EN 50174-2	d

Mechanical and material properties of cable

Colour	black	Halogen	halogen-free, according to IEC 60754-2, halogen-free, according to IEC 60754-1
Impervious to smoke	According to IEC 61034	Min. bending radius, once only	22 mm
Resistance to spread of flame	in accordance with IEC 60332-1-2		

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ETIM 6.0	EC000830	ETIM 7.0	EC003249
ETIM 8.0	EC003249	ETIM 9.0	EC003249
ECLASS 9.0	27-06-18-05	ECLASS 9.1	27-06-90-90
ECLASS 10.0	27-06-18-01	ECLASS 11.0	27-06-18-01
ECLASS 12.0	27-06-18-01	ECLASS 13.0	27-06-18-01

Environmental Product Compliance

REACH SVHC /

Approvals

ROHS Conform

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Drawings

