

**IE-S1DS2UE-500****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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, PUR, 500
Order No.	<a href="#">2924340000</a>
Type	IE-S1DS2UE-500
GTIN (EAN)	4099986624573
Qty.	1 pc(s).

## IE-S1DS2UE-500

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## Technical data

## Dimensions and weights

Length	500 m	Length (inches)	19,685.039 inch
Net weight	16,546.5 g		

## Temperatures

Operating temperature	-40 °C...80 °C
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## Technical specifications for cable

Colour coding	white / blue	Configurable cable length	No
Halogen	halogen-free, according to IEC 60754-1, halogen-free, according to IEC 60754-2	Insulation	PE
Number of poles	2	Number of wires	2
Resistance to spread of flame	in accordance with IEC 60332-1-2	Sheath material	PUR
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 <sup>2</sup>
Insulation	PE	Insulation cross-section	1.7 mm
Material sheath	PUR	Number of wires	2
Sheath diameter, max.	5.3 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 60754-1, halogen-free, according to IEC 60754-2
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

**Downloads**Catalogues [Catalogues in PDF-format](#)

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**Drawings**

