

**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 items
Packaging	on plywood reel

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## Technical data

## Approvals

ROHS Conform

## Dimensions and weights

Length	500 m	Length (inches)	19685.0394 inch
Net weight	16546.5 g		

## Temperatures

Storage temperature	-20 °C...60 °C	Operating temperature	-40 °C...80 °C
Installation temperature			

## Environmental Product Compliance

RoHS Compliance Status	Compliant
REACH SVHC	No SVHC above 0.1 wt%

## Technical specifications for cable

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

## Cable specific standards

Impervious to smoke According to IEC 61034

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## Cable structure

Strands	7	Sheathing colour	black
Cross-section	1 x 2 x AWG 22/7 - 0.35 mm <sup>2</sup>	Shielding	S/FTP
Number of wires	2	Insulation cross-section	1.7 mm
Insulation	PE	Sheath diameter, max.	5.3 mm
Material sheath	PUR	Wire pair shielding	Aluminium foil
Arrangement of wire cores	Twisted pair	Colour coding	white / blue
Complete shielding	Shielding braid made from copper wiring	Wire material	Copper
Tensile force, max.	25 N		

## 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

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### Mechanical and material properties of cable

Resistance to oils	No	UV-resistant	No
Colour	black	Halogen	halogen-free, according to IEC 60754-1, halogen-free, according to IEC 60754-2
Min. bending radius, repetitive	56 mm	Min. bending radius, once only	22 mm
Resistance to spread of flame	in accordance with IEC 60332-1-2	Impervious to smoke	According to IEC 61034

### Classifications

ETIM 8.0	EC003249	ETIM 9.0	EC003249
ETIM 10.0	EC003249	ECLASS 14.0	27-06-18-01
ECLASS 15.0	27-06-18-01		

**Drawings**

