

**Industrial Ethernet  
IE-C5ED8UG0100A46A46-X**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com



Assembled IE cables, SnapIn connectors according to IEC  
61076-3-106 ver.6

**General ordering data**

Order No.	<a href="#">8829740000</a>
Type	IE-C5ED8UG0100A46A46-X
Version	Dragline cable, RJ45 IP 67 snap-in V06 plastic, RJ45 IP 67 V 06, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 10 m
GTIN (EAN)	4032248533909
Qty.	1 pc(s).

## Industrial Ethernet IE-C5ED8UG0100A46A46-X

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

### Technical data

#### Dimensions and weights

Length	10 m	Net weight	570 g
--------	------	------------	-------

#### Temperatures

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

#### Electrical properties

Insulation resistance	500.000 Ω	Operating voltage	100 V
-----------------------	-----------	-------------------	-------

#### Standards

Impervious to smoke	According to IEC 61034-2	Connector standard	IEC 60603-7-51
Standard, assembly	UL-Style 20963 (80°C/30V)	Standard, insulating material	DIN EN 50290-2-25 (HD 624.5)
Standard, wire material	DIN EN 13602 Cu-ETP-A	Standard, shielding material	DIN EN 13602 Cu-ETP-A..B

#### Cable structure

Wire material	Stranded tin-plated copper wire	Standard designations	L19Y(ST)C11Y 4X2X0.14 VZN GN, SF/UTP
Strands	7	Cross-section	4*2*AWG 26/7 - 4*2*0.128 mm <sup>2</sup>
Insulation cross-section	0.95 mm	Wire core insulation thickness	0.23 mm
Arrangement of wire cores	Twisted pair	Diameter of wire pair	1.9 mm
Colour sequence or wires - wire pairs	white/blue - blue, white/ orange - orange, white/ green - green, white/ brown - brown	Filler	As central element, Between the individual wire pairs
Shielding	SF/UTP	Complete shielding	Plastic foil, Aluminium foil, Shielding braid made from copper wiring
Shielding braid thickness	0.1 mm	Overlap of shielding braid	90 %
Material sheath	PUR	Sheath diameter, min.	6.3 mm
Sheath diameter, max.	6.8 mm	Sheathing material thickness	0.85 mm
Sheathing colour	green (RAL 6018)		

#### Electrical properties of cable

Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	Operating voltage	100 V
Operating voltage, UL	30 V	Test voltage: wire-wire-shield, at RMS 50Hz, 1 min.	700 V
Characteristic impedance	100 ± 5 Ω at 100MHz	Loop resistance	270 Ω/km
Deviation	40 ns/100m	Resistance differential	2 %
Transfer impedance	100 mΩ/m at 10 MHz	Insulation resistance	500.000 Ω
Capacity at 800 Hz	50 nF/km	Signal propagation time	5.55 ns/m

**Industrial Ethernet**  
**IE-C5ED8UG0100A46A46-X**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Technical data**
**Mechanical and material properties of cable**

Min. bending radius, once only	4 *diameter	Min. bending radius, repetitive	7.5 *diameter
Pulling force	≤ 100 N	Speed	180 m/min
Acceleration	5 m/s <sup>2</sup>	Torsion resistance	30 °/m
Abrasion resistance	very good	Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	in accordance with IEC 60811-2-1	UV-resistant	Yes
Silicone-free	Yes	Halogen	in accordance with IEC 60754-2
Impervious to smoke	According to IEC 61034-2	Fire propagation	No

**plug**

Version connector left	RJ45 IP 67 snap-in V06 plastic	Version connector right	RJ45 IP 67 V 06
------------------------	--------------------------------	-------------------------	-----------------

**Classifications**

ETIM 2.0	EC001262	ETIM 3.0	EC001262
UNSPSC	26-12-16-06	eClass 4.1	27-06-08-05
eClass 5.1	27-06-18-02	eClass 6.2	27-06-18-01
eClass 7.1	27-06-18-01		

**Approvals**

Approvals	
ROHS	Conform

**Industrial Ethernet  
IE-C5ED8UG0100A46A46-X**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
[www.weidmueller.com](http://www.weidmueller.com)

**Drawings****Wiring**

---

RJ45	1	white, orange	1	RJ45
	2	orange	2	
	3	white, green	3	
	4	blue	4	
	5	white, blue	5	
	6	green	6	
	7	white, brown	7	
	8	brown	8	

---

---