

HARTING Industrial Cable 8-wire Cat. 6_A Outdoor PVC



Industrial Cable 8-wire, Cat. 6_A, Outdoor, PVC



Advantages

- Suitable for generic cabling Category 6_A / Class E_A according ISO/IEC 11801 respectively EN 50173-1 especially for flexible installation (patch cords)
- Designed for outdoor use, sun light resistant
- Qualified for transmission up to 10GigaBit Ethernet 10GBase-T acc. IEEE802.3an
- Based on stranded copper wires AWG26/7 delivers patch cord performance up to 500MHz
- Applicable for industrial premises and outdoor installation
- High EMC capability based on the PIMF construction
- Flame retardant, lead free and RoHS compliant
- UL certified for external use AWM Style 20276

General

This high-speed data cable was designed for flexible installation in industrial premises and it's especially suitable for termination of HARTING RJ45 data plugs in IP20 as well as in IP 67 / 65.

The four pair / eight wire PIMF-construction allows the transmission of IT digital and analogue signals like Ethernet 10/100Mbit/s, 10GigaBit/s, video and voice services as well as IP-based data services.

It delivers all characteristics to complete a generic cabling system according ISO/IEC 24702 respectively EN 50173-3. Maximum patch cord length specified up to 20m (part of transmission channel class E_A)

Transmission performance meets Cat.6_A specification up to 500 MHz for 10GigaBit Ethernet transmission according IEEE802.3an. The cable is fully screened (each pair in metal foil plus an overall wire braid) and guaranties a very safety signal transmission and high EMC performance.

PVC is used as jacket material. The cable is flame retardant, lead free and UV resistant.

Identification

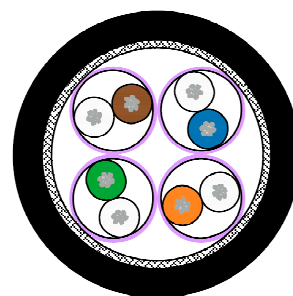
Industrial Cable
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20 m	ring
50 m	ring
100 m	ring
500 m	reel

Part number

09 45 600 0531
09 45 600 0541
09 45 600 0501
09 45 600 0521

Drawing



- Wire: tinned stranded copper, AWG26/7
- Insulation: PE, Ø 1.05 mm
- Color code: whbu/bu, whor/or, whgn/gn, whbr/br
- Pairs : Aluminate foil overlapped PIMF
- Overall screen: tinned copper wire braid, braid coverage about 70 %
- Outer sheath: Polyvinylchloride (PVC), flame retardant, lead free

Color of outer sheath: rape black, RAL 9005
Overall diameter: 6.3 mm – 6.9 mm

All data given are in line with the actual state of art and therefore not binding.
HARTING reserves the right to modify designs without giving the relevant reasons.

Technical Characteristics

Performance

Category 6_A according to IEC 61156-6

Mechanical Characteristics

Minimal bending radius

Repeated bending: 8 x diameter

Single bending: 4 x diameter

Dynamical bending (Tick - Tock)

30,000 cycles

EN 50396:2005 Chpt. 6 (angle: +/- 90 °, radius: 70 mm, load: 1 kg, cyc. p. min: 70)

Tensile strength

max. 70 N

Electrical Characteristics at 20 °C

Conductor resistance

max. 290 Ohm/km

Insulation resistance

min. 500 MOhm*km

Propagation delay

5.13 ns/m

Characteristic impedance 100 MHz

(100 ± 5) Ohm

Test voltage

700 V

Operating voltage

max. 100 V

Chemical Characteristics

Flame retardant

IEC 60332-1-2

Free of hazardous substances

RoHS 2002/95/EG

Thermal Characteristics

Permissible temperature range

fixed operation

- 20 °C to + 80 °C

flexible operation

- 20 °C to + 80 °C

Printing

HARTING INDUSTRIAL CABLE PVC OUTDOOR CAT 6_A S/FTP
4x2xAWG26/7 E333435  AWM STYLE 20276 80 °C 30V
094560001070001 "meter marking" "Charge Number" "HARTING
Logo"

Weight about

47 kg/km

Technical Characteristics

Frequency MHz	Attenuation dB/100m	NEXT dB	PS NEXT dB	EL FEXT dB	PS EL FEXT dB	Return Loss dB	
1	3.1	75.63	72.3	67.8	64.8	20	
4	5.7	66.3	63.3	55.8	52.8	23	
8	8	61.8	58.8	49.7	46.7	24.5	
10	8.9	60.3	57.3	47.8	44.8	25	
16	11.2	57.2	54.2	43.7	40.7	25	
20	12.6	55.8	52.8	41.8	38.8	25	
25	14.1	54.3	51.3	39.8	36.8	24.2	
31.25	15.8	52.8	49.9	37.9	34.9	23.3	
62.5	22.5	48.4	45.4	31.9	28.9	20.7	
100	28.7	45.3	42.3	27.8	24.8	19	
200	41.4	40.8	37.8	21.8	18.8	16.4	
250	46.6	39.3	36.3	19.8	16.8	15.6	
300	51.4	38.1	35.1	18.3	15.3	15.6	
400	60.1	36.3	33.3	15.8	12.8	15.6	
500	67.9	34.8	31.8	13.8	10.8	15.6	

acc. to IEC 61156-6

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