

# DIGITUS ASSNET100 Cat.5e U/UTP installation cable, 305 m, Eca

ACU-4511-305  
EAN 4016032317081



### ASSNET100 CAT 5e U-UTP installation cable, 100 MHz Eca (PVC), AWG 23/1, 305 m paper box, sx, grey

The ASSNET100 Cat.5e U/UTP installation cable is characterized by the following cable construction 4x2x AWG23/1 CCA wires and reaches a transmission frequency up to 100 MHz. The PVC jacket is conform to the CPR Euro class Eca. The cable is suitable for building structured cabling in the secondary and tertiary area.

#### The ASSNET installation cables assure best performance and link quality for your network

- Physical properties:
- Conductor: Copper covered aluminum, solid AWG 24/1
- Total number of insulated conductors: 8, twisted in 4 pairs
- Color code: Blue-white, orange-white, green-white, brown-white
- Individual pair shield: None
- Overall shielding: None
- Outer sheat: Eca acc. to EN 50575; PVC
- Outer sheath diameter (nominal): 0,50 mm nominal
- Outer sheath color: Grey (RAL 7035)
- Mechanical Properties:
- Tensile loading: 150N max.
- Dynamic bending radius: 8x AD mm min.
- Static bending radius: 4x AD mm min.
- Shipping- and storage temperature range: -20 °C up to +75 °C

- Operating temperature range: -20 °C up to +60 °C
- Installation temperature range: 0 °C up to +50 °C
- Electrical Properties:
- Impedance: 100±15 Ohm @ 1-100 MHz
- Capacitance: 40 pF/m nominal @ 800 Hz
- Capacitance unbalance (pair-ground): 1.5 pF/m max. @ 1 KHz
- Insulation resistance: 2 GOhm x km min.
- DC loop resistance: 262 Ohm/km max. (2% max. resistance unbalance)
- Voltage resistance: 72 Vdc max.
- Coupling attenuation: CA-Type 3
- Signal propagation delay: 535 nS/100 m max.
- Propagation delay: 20 nS/100 m max.
- Separating class: „b" acc. to EN 50174-2
- Maximum operating length: 60 m
- NVP: 69%
- Assortment: Twisted Pair Installation Cables
- Category: CAT 5e
- Shielding: U-UTP, unshielded
- CPR: Eca
- Length: 305 m
- Color: grey
- Jacket: PVC
- Structure: 4 x 2 AWG 24/1, solid twisted pair

| Logistics                    |              |             |            |            |             |                 |
|------------------------------|--------------|-------------|------------|------------|-------------|-----------------|
|                              | Number (pcs) | Weight (kg) | Depth (cm) | Width (cm) | Height (cm) | cm <sup>3</sup> |
| Packaging Unit Carton        | 2            | 15.20       | 42.00      | 38.00      | 38.00       | 60,648.00       |
| Packaging Unit Inside        | 1            | 7.60        | 20.00      | 35.00      | 35.50       | 24,850.00       |
| Packaging Unit Single        | 1            | 7.60        | 20.00      | 35.00      | 35.50       | 24,850.00       |
| Net single without Packaging | 1            | 0.00        | 0.00       | 0.00       | 0.00        | 0.00            |

More images:



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100 MHz  
1 Cat  
Ethernet  
AWG 23/1

CAT 5e  
20/140  
E class  
CFR class

**ASSNET100  
CAT 5e U/UTP Installation Cable,  
305 m, Simplex, E<sub>ca</sub>**

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Anwendungsbeispiel  
Example of use

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Kabelquerschnitt  
Cable cross section

Automatischer Ticker jacket  
Cu-Drill Cu-Wire  
Aluminium Shield cable

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| Produktdaten Product Information                           | Physikalische Spezifikationen Physical Properties          |
|--|--|
| Artikelnummer: 100001-1                                    | Code: ASSNET100 CAT 5e U/UTP Installation Cable            |
| Produkttyp: Patchkabel                                     | Herstellung: 04/14 Patchkabel                              |
| Name/Typ: 305m/305m  | Spezifikation: ISO/IEC 11801 Class E, TIA/EIA 568 Class E  |
| <b>Elektrische Eigenschaften Electrical Properties</b>     | <b>Mechanische Eigenschaften Mechanical Properties</b>     |
| Übertragungsfrequenz: 100 MHz @ 100 MHz                    | Übertragungsfrequenz: 100 MHz @ 100 MHz                    |
| Impedanz: 100 Ohm @ 100 MHz                                | Impedanz: 100 Ohm @ 100 MHz                                |
| Reflexionskoeffizient: <math>S_{11} < -15\text{ dB}</math> | Reflexionskoeffizient: <math>S_{11} < -15\text{ dB}</math> |
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Leistungspegelcharakteristiken Transmission Properties

| FREQ.      | ATT | RETX | PLRETX | ACC  | PLACC | DL | RLRETX | PLRETX |
|------------|-----|------|--------|------|-------|----|--------|--------|
| 1          | 3   | 0    | 17     | 17   | 14    | 19 | 0,0    | 0,0    |
| 10         | 1,1 | 0,0  | 16,1   | 16,1 | 13,1  | 18 | 0,0    | 0,0    |
| 100        | 0,1 | 0,1  | 14,1   | 14,1 | 11,1  | 16 | 0,0    | 0,0    |
| 1000       | 0,0 | 0,0  | 12,1   | 12,1 | 9,1   | 14 | 0,0    | 0,0    |
| 10000      | 0,0 | 0,0  | 10,1   | 10,1 | 7,1   | 12 | 0,0    | 0,0    |
| 100000     | 0,0 | 0,0  | 8,1    | 8,1  | 5,1   | 10 | 0,0    | 0,0    |
| 1000000    | 0,0 | 0,0  | 6,1    | 6,1  | 3,1   | 8  | 0,0    | 0,0    |
| 10000000   | 0,0 | 0,0  | 4,1    | 4,1  | 1,1   | 6  | 0,0    | 0,0    |
| 100000000  | 0,0 | 0,0  | 2,1    | 2,1  | -0,9  | 4  | 0,0    | 0,0    |
| 1000000000 | 0,0 | 0,0  | 0,1    | 0,1  | -3,1  | 2  | 0,0    | 0,0    |

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CAT 8 S  
CAT 7  
CAT 7 S/SHIELD  
CAT 6  
CAT 5e

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| CFR Evaluation | Brandenklasse | Lebensdauer (years) | Adaptation to conditions  | Special features   |
|----------------|---------------|---------------------|---|--|
| B2ca           | Very high     | 1+                  | • Temperature<br>• Humidity<br>• Pollution<br>• Mechanical stress | • Flame retardant<br>• Low smoke<br>• Halogen free<br>• RoHS compliant |
| Cca            | High          | 3                   | • Temperature<br>• Humidity<br>• Pollution<br>• Mechanical stress | • Flame retardant<br>• Low smoke<br>• Halogen free<br>• RoHS compliant |
| Dca            | Medium        | 3                   | • Temperature<br>• Humidity<br>• Pollution<br>• Mechanical stress | • Flame retardant<br>• Low smoke<br>• Halogen free<br>• RoHS compliant |
| Eca            | Low           | 3                   | • Temperature<br>• Humidity<br>• Pollution<br>• Mechanical stress | • Flame retardant<br>• Low smoke<br>• Halogen free<br>• RoHS compliant |

