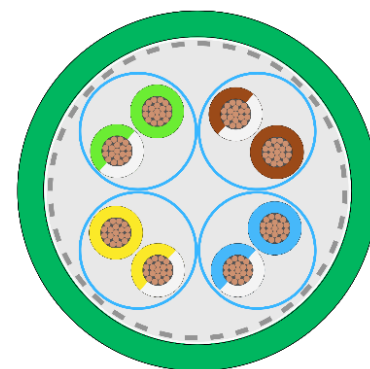


TEAM BUS ETHERNET MOBILE BUSETHCAT7PUR



AWM Style 20236 (80°C / 30V)



Conductor

Stranded bare copper wire 7x0,16mm (nom. section 0,14mm² - AWG26); nominal diameter 0,48mm;
Lay agree with UL 758 tab 5,9; conform to EN 13602 - ETP1, DIN 40500 E-Cu 58.

Pair Assembly

Cores twisted in pairs; Pairs colours (Orange - White pol. Orange) - (Green - White pol. Green) - (Brown - White pol. Brown) - (Blue - White pol. Blue).

Pairs Shield

Each pair shielded with Al/PET tape (Aluminium face outside); optical coverage 100%.

Jacket

PUR compound (11Y); diameter 6,9 ±0,2 mm; colour Green similar RAL6026.

Physical

Operating temperature range: -40°C to +80°C (fixed)
Operating temperature range: -25°C to +80°C (flex)
Minimum bending radius: 7,5 x D (fixed)
UV resistant: yes

Flame

Flame resistant: UL Cable flame test; UL VW-1; CSA FT1; IEC 60332-1-2

Insulation

PEE compound (02Y); nominal diameter 1,03mm; colours Orange-White polarized Orange - Green-White polarized White – Brown-White polarized Brown - Blue-White polarized White

Total Assembly

Pairs 4x(2xAWG26) stranded together (see indicative Sketch).

Total Shield

Braid type; Tin copper wire; nom. optical Coverage 75%.

Electrical

Operating voltage: 50 Vrms (UL 30V)
Voltage test: 500 Vac

Chemical

Oil resistance: yes (UL758)
Silicone, Pb, Cd, Hg, FCKW free: yes
Halogen free: yes (CEI EN 60754-1 / VDE 0482-754-1)

Movement Data @20°C

Minimum bending radius: 10 x D
Bending cycles: 4 Mio (8 Mio Stroke)
Max speed: 300 m/min
Max Acceleration: 50 m/sec²
Torsion: ± 90°/m (5 Mio cycles)



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Electrical transmission properties Cat.6 @20°C

Max electric resistance: 150,3 Ω /Km (IEC 60344)
Nominal Impedance: 100 Ω
Capacitance @1KHz: 47 pF/m (nominal)
Propagation velocity: 80 % (nominal)
Propagation delay: <534 ns/100m
Delay skew: <45 ns/100m
Transfer Impedance: 5 m Ω /m @10MHz
Channel Class D (Cat5e – 100MHz): max 72m (0,8 dB loss for RJ45 connectors)
Channel Class E (Cat6 – 250MHz): max 67m (0,8 dB loss for RJ45 connectors)
Channel Class EA (Cat6A – 500MHz): max 67m (0,8 dB loss for RJ45 connectors)
Channel Class F (Cat7 – 600MHz): max 67m (0,8 dB loss for TERA connectors)

Accordance to

IEC 61156-6 - Work area wiring Cat.7
ISO11801-1 §9.3.2.6 - Flexible cable Class F
Suitable for Fast Connect technology

Name	Cable Type	Ø mm	Tolerance
BUSETHCAT7PUR	4 x 2 x 0,14	6,9	±0,20 mm

