

FACAB[®] DATALINE 100 FTP (F-UTP*) 4x2xAWG 24 (LSOH)

* Type code according to ISO/IEC 11801(2002)

Specification/standards: ISO/IEC 11801, EN 50173, EN 55022, EN 50167 and EN 50169

Construction:

- bare solid copper AWG 24 (0,52 mm),
- polyolefin-compound, color code acc. to IEC 708
- two cores twisted in pairs
- 4 pairs layed up
- Cu-drain wire 0,5 mm, tinned
- static screen (Al-tape)
- sheath
 - PVC = grey RAL 7032 (**part-no. 100365**)
 - LSOH = orange RAL 2003 (**part-no. 100366**)

Impedance: 100 $\Omega \pm 15\%$
Signal speed: 0,66 c
Coupling resistance: < 100 m Ω /m @ 10 MHz
Test voltage: core/core =500 V, core/screen = 1500V
Conductor resistance: < 87,85 Ω /km
Insulation resistance: >10 G Ω xkm (core-core)
Operating capacity (800 Hz): 50 nF/km

Near End Cross Talk:

	typical values
1 MHz	> 75 dB
10 MHz	> 57 dB
16 MHz	> 54 dB
20 MHz	> 52 dB
100 MHz	> 40 dB

Attenuation:

	typical values
1 MHz	< 1,8 dB/100 m
10 MHz	< 5,5 dB/100 m
16 MHz	< 7,2 dB/100 m
20 MHz	< 8,0 dB/100 m
100 MHz	< 18,0 dB/100 m

Copper-weight: 19,2 kg/km
Cable-weight: 44 kg/km
Outer diameter: ca. 6,6 mm
Bending radius: with tensile load: 8 x D_A
 without tensile load: 4 x D_A

Tensile strength: PVC 270 N
 LSOH 220 N

Combustion energy: PVC 0,40 MJ/m
 LSOH 0,76 MJ/m

Operating temperature (fixed): -30 up to +70 °C
during installation: -5 up to +50 °C

Application: For connection of IT system units in the desktop area, between workstations and as riser cable up to 100 Mbit/s (Categorie 5). It fully complies with the requirements to electromagnetic compatibility (EMC) of the European Standard EN 55 022.