

## Category 6, SF/UTP Twisted Pair Patch Cable, PUR, drag chain suitable



✓ Perfect for industrial needs

✓ Sheath: PUR

✓ Oil- and UV resistant

✓ drag chain suitable

### Abstract

CAT 6, SF/UTP twisted pair patch cable, PUR, drag chain suitable, AWG 26/19, color green

### Features

- 2x RJ45 plug
- Boots with kink protection and strain relief
- Conductor: Cu
- Shielding: SF/UTP (complete foil- and braid shielding, pairs unshielded)
- Structure: 4x 2 AWG 26/19
- incl. central fixing element for mechanical longitudinal and cross load
- Sheath: PUR (Polyurethan)
- suitable for drag chain machines up to 55 m installation length
- Color: Yellow green, similar to RAL 6018

### Product Overview

The category 6, SF/UTP patch cables offer good reliability against oil with its PUR sheath. Therefore they are perfect for industrial applications. Further features of the PUR sheath are the UV resistance and the self-extinguishing fire behavior. The flexible patch cables are suitable for drag chains up to 55 m installation length. The kink protection boot with overmould supports the industrial usage.

### Performance Overview

The category 6, SF/UTP patch cables with PUR sheath are manufactured and tested acc.to: ISO/IEC 11801, RoHS 2002/95/EC, EN 13602, EN 50173, IEC 60332-1, oil resistant, CMX 75° C gem. UL 444

### Drag Chain Properties

Bending cycles	1 Mio. at 7.5x diameter
Operating velocity	max. 240 m/min @ 4.5 m
Acceleration	max. 4 m/s <sup>2</sup>

### Performance- and Specification Overview

Conductor	Cu, flexible, AWG 26/19; 0.63 mm
Insulation	PP (Polypropylen)
Conductor insulation diameter	0.98 mm
Material outer sheath	PUR.F45052-F5100 (referring to DIN VDE 0282)
Diameter outer sheath	0.75 mm
Color	Yellow green, similar RAL 6018
Outer diameter	7.8 ± 0.3 mm
Pair shielding	unshielded
Overall shielding	Aluminum foil and copper braid (0.1 mm diameter), tinned
Coverage	85% nom.
Fire load	ca. 1.35 MJ/m
Flame test	IEC 60332-1-2
Operating temperature range	-30 °C up to + 70 °C

### Electrical Properties\*

DC resistance	140 Ω/km max. ± 3%
Capacity (pair)	52 pF/m nom.
Tolerance	2 pF/m max.
Dielectric (*at 20 °C)	Core/Core: 700 Vac/min.; Core/Shielding: 700 Vac/min.

### Transmission Properties

Norm frequency	1-250 Mhz
Wave impedance	100 Ω ± 10 Ω
NVP (Nominal Velocity of Propagation)	63%
Operating voltage max.	100V short period, 30V permanent

Freq. (MHz)	Attenuation (dB/100 m)	NEXT (dB)	ACR (dB)
1	3.1	66.0	64.0
4	5.8	65.3	63.3
16	11.4	56.2	54.2
31.25	16.1	51.9	49.9
62.5	23.2	47.4	45.4
100	29.9	44.3	42.3
200	43.7	39.8	37.8
250	49.5	38.3	36.3

## Product Number Information

DK-16PUR-010-SK	CAT 6 SF/UTP patch cable, drag chain suitable, Cu, PUR, AWG 26/19, length 1 m
DK-16PUR-020-SK	CAT 6 SF/UTP patch cable, drag chain suitable, Cu, PUR, AWG 26/19, length 2 m
DK-16PUR-030-SK	CAT 6 SF/UTP patch cable, drag chain suitable, Cu, PUR, AWG 26/19, length 3 m
DK-16PUR-050-SK	CAT 6 SF/UTP patch cable, drag chain suitable, Cu, PUR, AWG 26/19, length 5 m
DK-16PUR-075-SK	CAT 6 SF/UTP patch cable, drag chain suitable, Cu, PUR, AWG 26/19, length 7,5 m
DK-16PUR-100-SK	CAT 6 SF/UTP patch cable, drag chain suitable, Cu, PUR, AWG 26/19, length 10 m
DK-16PUR-150-SK	CAT 6 SF/UTP patch cable, drag chain suitable, Cu, PUR, AWG 26/19, length 15 m
DK-16PUR-250-SK	CAT 6 SF/UTP patch cable, drag chain suitable, Cu, PUR, AWG 26/19, length 25 m