



## Application

Work area and patch cord cable  
 IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T  
 IEEE 802.5: 16MB; ISDN; TPDDI; ATM

## Standards

DIN EN 50173-1; EN 50288-4-2; ISO/IEC 11801; IEC 61156-6; EIA/TIA 568-C.2

## Flame resistance

IEC 60332-1; UL 1581 FT2 (horizontal flame test)

## Construction

Conductor	stranded bare copper wire Ø 0,46 mm (AWG27/7)
Insulation	Foam skin Polyethylene Ø 1,02 mm
Twisting	2 cores to the pair
Pair screen	Aluminium-laminated plastic foil
Cable lay up	4 pairs (PiMF)
Overall screen	Copper braid, tinned
Outer jacket	PVC, green RAL 6018
Cable marking: blue	Cat.7 S/FTP 4X2XAWG27/7 PVC LI02YSCY PIMF IEC 60332-1 -40°C ~ +75°C  AWM STYLE 20276 30V 75°C E81280 „sequential length in meters“

## Mechanical properties

Bending radius	≥ 50 mm installation ≥ 25 mm installed
Temperature range	during operation: -40 °C up to +75 °C during installation: -10 °C up to +60 °C

## Electrical properties

at 20°C ± 5°C

Loop resistance	max. 366 Ω/km
Resistance unbalance	max.2%
Insulation resistance (500V)	min. 150 MΩxkm
Mutual capacitance (at 1 kHz)	nom. 4,6 nF/100m
Capacitance unbalance (at 1 kHz) (pair/ground)	max. 160 pF/100m
Characteristic impedance (1-100 MHz)	100 ± 15 Ω

## Patch Cable S/FTP AWG27/7 Cat.7

Nominal velocity of propagation	ca. 78%	
Propagation delay	≤ 427 ns/100m	
Delay skew	≤ 25 ns/100m	
Test voltage (DC, 1min) (core/core und core/screen)	750 V/1min	
Coupling attenuation	MHz	mΩ/m
	1	50
	10	100
	30	200
	100	1000

### Transmission properties

at 20°C ± 5°C

have been verified as being compliant with the standards.

Order No.	Standard designation	Scope of delivery	Outer diameter mm	Weight kg/km	Fire load		Tensile force N
					MJ/km	kWh/m	
L02002C0071	Li-02YSCY 4x2x0,46 PiMF PVC	305m (1000ft) easy reel box	6,2	42,22	468	0,13	60
L02002D0071	Li-02YSCY 4x2x0,46 PiMF PVC	100m roll	6,2	42,22	468	0,13	60