

# SOMMER CABLE

## ETHERNET™ PATCH CABLE CAT.7 (S/FTP) 4x2x26/7AWG

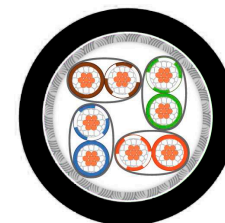
**Application:** Networkcable CAT.7

### Construction:

Inner conductor	stranded bare copper wires 0,14 mm <sup>2</sup> (26/7 AWG)
Insulation	foam skin polyethylene
Insulation diameter (nom.)	1,05 mm
Insulation colours	white-blue, blue, white-orange, orange, white-green, green, white-brown, brown
Core assembly	twisted to pairs (1) blue/white-blue - (2) orange/white-orange - (3) green/white-green - (4) brown/white-brown
Pair Shield	aluminium/polyester (AL/PET) tape with overlap - AL surface outside
Assembly of elements	pairs stranded together
Global Shield	tinned copper wire braid 65% nom. coverage
Outer jacket	PUR halogen free and flame retardant
Jacket diameter	6,4 mm (± 0,20) mm
Jacket colour	BLACK

### Electrical Data:

Max DC conductor resistance	143,0 Ω/km
Capacitance core/core	44 pF/m
Capacitance unbalance	1600 pF/km
Characteristic impedance	100 Ω (± 15%) (1÷250 MHz) - 100 Ω (± 20%) (250÷600 MHz)
Propagation velocity (approx.)	77%
Dielectric test voltage	1,5 kVac / 1 min (core/core)
Dielectric test voltage	1,0 kVac / 1 min (core/shield)
Min insulation resistance	5,0 GΩxkm



**Artikelnummer: 581-0071**

**MERCATOR CAT.7 PUR** 4x2xAWG26, 100 Ohm schwarz

EAN-Code: 4049371005470

Art. No. 581-0071

Checked: FV

Size: A4

Date: 08.06.2016

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Material:

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## ETHERNET™ PATCH CABLE CAT.7 (S/FTP) 4x2x26/7AWG

Freq	Attenuation std	Attenuation typical	Ps Next std	Ps Next typical	Ps El-Fext std	Ps El-Fext typical	Ps Acr std	Ps Acr typical	Return Loss std	Return Loss typical
[MHz]	max[dB/100m]	[dB/100m]	min[dB]	[dB]	min[dB/100m]	[dB/100m]	min[dB/100m]	[dB/100m]	min[dB]	[dB]
1	3,0	2,9	75,0	> 95	75,0	93	72,0	> 90	---	27
4	5,6	5,4	75,0	> 95	75,0	93	69,4	> 90	23,0	28
10	8,8	8,4	75,0	95	71,0	92	66,2	86,6	25,0	31
16	11,1	10,4	75,0	95	66,9	85	63,9	84,6	25,0	31
20	12,4	11,4	75,0	92	65,0	79	62,6	80,6	25,0	31
31,25	15,6	14,2	75,0	92	61,1	71	59,4	77,8	23,3	28
62,5	22,3	20,5	72,5	90	55,1	58	50,1	69,5	20,7	27
100	28,5	26,2	69,4	90	51,0	55	40,9	63,8	19,0	25
155,52	36,0	33,2	66,5	88	47,2	51	30,5	54,8	17,3	25
250	46,5	42,5	63,4	84	43,0	47	17,0	41,5	15,6	23
500	67,9	62,2	58,9	75	37,0	41	---	12,8	15,6	21
600	75,1	67,8	57,7	73	35,4	38	---	5,2	15,6	20
750	---	77,2	---	70	---	33	---	-7,2	---	19

### Fire performance:

Flame retardant	compliant IEC 60332-1-2 Std.
Determination of the amount of halogen acid gas	compliant EN 50267-2-1 and IEC 60754-1 Std.
Determination of degree of acidity of gases	compliant EN 50267-2-2 and IEC 60754-2 Std.
Heat release (approx.)	643 MJ/km (0,178 kWh/m)

### Other properties:

Max operating voltage	125 V (not for purposes)
Temperature rating (fixed)	-40°C / +80°C
Min bend radius (fixed)	8 x outer diameter [mm]
Min bend radius (dynamic)	10 x outer diameter [mm]
Max pulling force	80 N

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