

# SOMMER CABLE

## ETHERNET™ PATCH CABLE CAT.7 S/STP FLEX FRNC-LSZH 4x2x23/7AWG

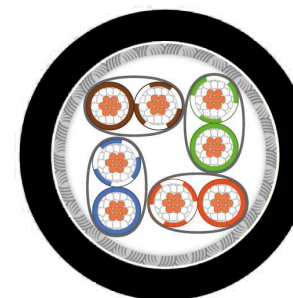
**Application:** Networkcable CAT.7

### Construction:

Inner conductor	stranded bare copper wire 4x2x23/7AWG (7x0,22 mm $\varnothing$ ) - nom. cross section 0,26 mm <sup>2</sup>
Insulation	foam-skin polyethylene - nom. 1,55 mm $\varnothing$
Insulation colours	white, blue, white, orange, white, green, white, brown
Core assembly	the cores will be stranded to a pair - (1) white+blue, (2) white+orange, (3) white+green, (4) white+brown
Pair Shield	each pair will be wrapped with aluminium/polyester tape (outside aluminium surface)
Pair assembly	the four shielded pair will be stranded together
Global Shield	tinned copper wire braid with 65% nom. coverage
Outer jacket	flame retardant and halogen free PUR compound - green RAL6018 colour
Jacket diameter	8,6 ( $\pm$ 0,5)mm - nom. thickness: 0,8 mm
Jacket colour	BLACK

### Electrical Data:

Max DC conductor resistance	72 $\Omega$ /km
Capacitance core/core	44 pF/m
Capacitance unbalance	1600 pF/km
Characteristic impedance	100 $\Omega$ ( $\pm$ 15%)
Propagation velocity (approx.)	77%
Dielectric test voltage	0,7 kVac / 1 min (core/core)
Dielectric test voltage	0,7 kVac / 1 min (core/shield)
Min insulation resistance	5,0 G $\Omega$ xkm



**Artikelnummer: 581-0251**  
**SC-MERCATOR CAT.7 PUR XL**  
 AWG23, schwarz

EAN-Code: 4049371019750

Art. No. 581-0251

Checked: FV

Size: A4

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

FREQUENCY [MHz]	ATTENUATION [dB/100m]		NEXT [dB]		PS NEXT [dB]		ELFEXT [dB/100m]		PS ELFEXT [dB/100m]		PS ACR [dB/100m]		RETURN LOSS [dB]	
	Standard [MAX]	typical	[MIN]	typical	Standard [MIN]	typical	Standard [MIN]	typical	Standard [MIN]	typical	[MIN]	typical	Standard [MIN]	typical
1	3,0	2,0	80,0	> 95	77,0	> 95	78,0	> 95	75,0	> 95	74,0	93,0	---	28
4	5,6	3,6	80,0	> 95	77,0	> 95	78,0	> 95	75,0	95	71,4	91,4	23,1	30
10	8,8	5,6	80,0	> 95	77,0	> 95	74,0	95	71,0	92	68,2	89,4		
16	11,1	7,2	80,0	> 95	77,0	> 95	69,9	92	66,9	89	65,9	87,8	25,0	33
20	12,4	8,3	80,0	> 95	77,0	95	68,0	88	65,0	85	64,6	86,7		
31,25	15,6	10,2	80,0	95	77,0	92	64,1	82	61,1	79	61,4	81,8	23,3	33
62,5	22,3	14,6	75,5	93	72,5	90	58,1	77	55,1	75	50,2	76,4	20,7	30
100	28,5	19,0	72,4	91	69,4	88	54,0	70	51,0	67	40,9	69,0	19,0	28
125	32,1	21,2	70,9	90	67,9	87	52,1	68	49,1	65	35,8	65,8	18,2	27
155,52	36,0	24,0	69,5	89	66,5	86	50,2	64	47,2	61	30,5	62,0	17,3	25
200	41,2	27,5	67,9	88	64,9	85	48,0	58	45,0	55	23,7	57,5	16,4	25
250	46,5	30,7	66,4	86	63,4	83	47,0	55	43,0	52	16,9	52,3	15,6	23
350	55,8	36,5	64,2	84	61,2	81	43,1	49	40,1	46	5,4	44,5	15,6	22
500	67,9	44,6	61,9	83	58,9	80	40,0	47	37,0	44	---	35,4	15,6	21
600	75,1	49,3	60,7	81	57,7	78	38,4	44	35,4	41	---	28,7	15,6	20
750	---	55,4	---	79	---	76	---	38	---	34	---	20,6	---	17

### Fire performance:

Flame retardant	in compliance with IEC 60332-1 Standard requirement (will be confirmed after the first production)
Determination of the amount of halogen acid gas	in compliance with EN 50267-2-1 and IEC 60754-1 Standards requirement - max 0,5% of HCl
Determination of degree of acidity of gases	in compliance with EN 50267-2-2 and IEC 60754-2 Standards PH >4,3 / nom. conductivity 23 µS/mm
Heat release (approx.)	884 MJ/km (0,245 kWh/m)

### Other properties:

Max operating voltage	125 V (not for purposes)
Temperature rating (fixed)	-20°C / +75°C
Min bend radius (fixed)	8 x outer diameter [mm]
Min bend radius (dynamic)	12 x outer diameter [mm]
Max pulling force	150 N

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