

## Data Sheet

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### Network cable CAT 7 S/FTP 4 x 2 x 0.26 mm<sup>2</sup>



#### Product Features:

- The performance meets the requirements of the latest standard ANSI/TIA 568.2-D
- Bandwidth up to 750MHz, far exceeding standard requirements, ideal for 10 Gigabit transmission
- Using environmentally friendly materials, in line with RoHS environmental protection requirements
- The cable has excellent shielding effect and strong anti-interference ability

#### Technical data

BN	2469559	2469560	2469561
Length:	50 m	100 m	500 m
Cable type:	CAT 7		
Shielding:	S/FTP		
No. of leads:	8x		
Cross section (each core):	0.26mm <sup>2</sup>		
Cross section:	4 x 2 x 0.26 mm <sup>2</sup>		
Outside Ø:	7.30mm		
Colour:	Orange		
Conductor material:	Solid copper		
AWG (max.):	23 AWG (0.57±0.01 mm)		
Insulation material:	Foamed PE		
Insulation dia.:	1.38 ± 0.03 mm		
Concentric ratio:	≥90%		
Colors code of twisted pair:	Pair 1: Blue x white Pair 2: Orange x white Pair 3: Green x white Pair 4: Brown x white		
Shield (tape) material:	Aluminum/ Polyester 65Ux14mmx4P		

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Shielded braid:	16/6/0.12AM 80% Shield coverage
Shielded drain wire:	TC 0.4 ± 0.005 mm
Shielded filler:	Nylon cord 250D
Jacket material:	LSZH
Jacket dia.:	7.6 ± 0.3 mm
Jacket thickness:	0.55 mm ± 0.05 mm
Temperature range (Flexible installation):	0°C ~ 50°C
Temperature range (Fixed installation):	-20°C ~ 60°C
Bending radius:	Installation 4 * D Installed 8 * D
DC loop resistance:	≤135Ω/ KM
C resistance unbalance:	≤2%
Insulation resistance:	≥5000 M Ω* KM
Capacitance:	Nom. 43 nF/KM
Capacitance unbalance:	≤1500pF/KM
Mean Characteristic impedance:	100±5Ω
Nominal velocity of propagation:	Nom.76%
Delay skew:	12ns/100 m

## Transmission performance

Frequency	Attenuation	NEXT	PSNEXT	Return Loss	ACRF	PS.ACRF
(MHz)	(dB/100m)	(dB/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
1	2.0	78.0	75.0	20	78.0	75.0
4	3.7	78.0	75.0	23	78.0	75.0
10	5.9	78.0	75.0	25	74.0	71.0
16	7.5	78.0	75.0	25	69.9	66.9
20	8.4	78.0	75.0	25	68.0	65.0
31.25	10.4	78.0	75.0	23.6	64.1	61.1
62.5	14.9	75.5	72.5	21.5	58.1	55.1
100	19.1	72.4	69.4	20.1	54.0	51.0
200	27.6	67.9	64.9	18	48.0	45.0
250	31.0	66.5	63.5	17.3	46.0	43.0
300	34.2	65.3	62.3	17.3	44.5	41.5
400	40.0	63.4	60.4	17.3	42.0	39.0
500	45.3	61.9	58.9	17.3	40.0	37.0
600	50.1	60.8	57.8	17.3	38.4	35.4