

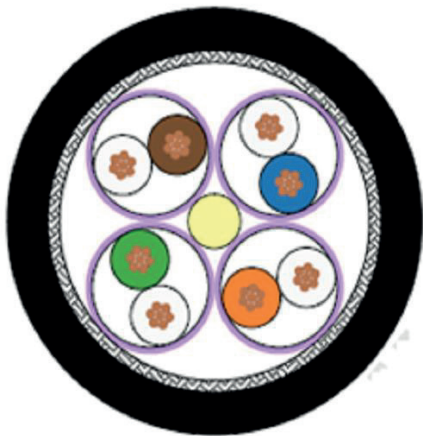
Amphenol-Air LB

CAT7 ETHERNET CABLE

VG95218T031

Type B001; Type C001 and Type C002

CAT7 Ethernet cable with VG95218T031 approval (Type B001; Type C001 and Type C002) for secure data transmission in all defense, marine, aviation and industrial applications.



CHARACTERISTICS:

- For mobile or stationary installation as per VG up to 90 m
- UV-resistant and halogen-free copolymer cable jacket, D=7.3 mm
- AWG26 wires (4 x 2 x 0.14 mm²)
- Operating temperature: -40°C to + 85°C
- Approved for data connectors up to CAT6_A as per VG96912
- Available by the meter, starting at 1 m



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02YSCH 4X2X0,5/1,0-100 LIPIMF BK CAT7 HFFR

DESIGN

Wire:

Stranded bare copper wire (26 AWG)
Insulation of foamed Polyethylene (PE) with skin max
1,05mm

Screened pair:

2 wires twisted to a pair
Aluminium foil overlapped

Core:

Strain member of kevlar
4 pairs twisted
Sequence of colors: WH/BU-WH/OG-WH/GN-WH/BN
Shield braiding of tinned copper wires
Coverage about 80%

Jacket:

Thermoplastic copolymer (FRNC) BK: Ø 7,0 ± 0,3mm
(0,276±0,012 inch)

Printing: VDE-REG F050 AMPHENOL SOCAPEX
VG95218T031B001 week/year
„internal lot number“ „sequential length in meters“
«to be printed every 500mm from the beginning of
each marking»

Mechanical and thermal characteristics:

According to VG 95218-31

Other characteristics:

RoHS compliant (Directive 2002/95/EC)
Sunlight resistant acc. to UL 444 Sec. 7.12
Smoke-density acc. to IEC 61034-2
Hydrolysis resistance
Halogen free

Permissible temperature range
Transport and fixed installation:
-40°C (-40°F) up to 85°C (185°F)
Installation and flexible use:
-40°C (-40°F) up to 85°C (185°F)

Max pulling force : 800N
Min. bending radius allowed:
repeated 8 X Ø, single 4 X Ø
Weight about : 54 kg/km (36lb/1000 ft)

Electrical data at 20°C°:

Loop resistance	≤	290 Ohm/km
Screen resistance	≤	10 Ohm/km
Signal run time	≤	5,13 ns/m
Insulation resistance	≥	5 GOhm*km
Characteristic impedance 100 MHz		(100±5) Ohm
Operating voltage (peak)	≤	100 V
Screening attenuation 30 - 600 MHz	≥	90 dB
Transfer impedance of screen (1 - 30 MHz)	≤	10 mOhm/m
Test voltage (wire/wire/screen rms 50Hz 1min)		700 V

Frequency	1	4	10	16	20	31,25	62,5	100	155	200	300	600
Next (dB)	80	80	80	80	80	80	75,1	72,4	69,6	67,9	65,3	60,8
PSNext (dB)	77	77	77	77	77	77	72,5	69,4	66,6	64,9	62,3	57,8
ELFext (dB)	80,0	80,0	74,0	69,9	68	64,1	58,1	54	50,2	48,0	44,5	38,4
PSELfext (dB)	77	77	71	66,9	65	61,1	55,1	51	47,2	45,0	41,5	35,4
Attenuation (dB/100m)	2,9	5,5	8,5	10,8	12,1	15,2	21,7	27,8	35,0	40,1	50,0	73,3

Frequency	4	8	10	16	20	31,25	62,5	100	155	250	350	600
Return loss (dB)	23,1	24,5	25	25	25	23,6	21,5	20,1	18,8	17,3	17,3	17,3

Electrical requirements according to EN 50288-4-2