

INDUSTRIAL GIGABIT ETHERNET CABLES CAT 7A



CATLine CAT 7A S

CAT 7A Gigabit Ethernet cable,
suitable for cable tracks with UL recognition and CSA approval

CATLine CAT 7A RT

CAT 7A Gigabit Ethernet cable,
suitable for robots with UL recognition and CSA approval

0°C 300V CSA AWM I/II A/B 80°C 300V FT2 CE



Marking for S CATLine CAT 7A S:

SAB BRÖCKSKES · D-VIERSEN · CATLine Cat.7A S 4x2x26AWG 17774631 x AWM Style 20549 80°C 300V CSA AWM I/II A/B 80°C 300V FT2 CE

Industrial Ethernet is a quickly developing network technology. Ethernet with the worldwide accepted TCP/IP (Transmission Control Protocol/Internet Protocol) will be the future connection to the well established field bus or sensor / actuator level. Depending on the application, we are able to offer today CAT 5, CAT 6 and CAT 7 cable solutions for flexible and continuous flex use, for chemical and thermal stress as well as special cable constructions for reeling purpose and robot operation.

item no.	type	dimension AWG	nominal outer- ϕ inch	mm	cable weight \approx lbs/mft
▶ 17774631	CATLine CAT 7A S	26 (\approx 7/34)/4pr	0.346	8.8	54
▶ 17774431	CATLine CAT 7A S	24 (\approx 7/32)/4pr	0.366	9.3	63
▶ 17874631	CATLine CAT 7A RT	26 (\approx 7/34)/4pr	0.346	8.8	54
▶ 17874431	CATLine CAT 7A RT	24 (\approx 7/32)/4pr	0.366	9.3	63

Other dimensions and colors are possible on request.

Construction:	CATLine CAT 7A S <i>suitable for cable tracks</i>	CATLine CAT 7A RT <i>suitable for robots</i>
Item number:	17774631 / 17774431	17874631 / 17874431
Dimension:	4 x 2 x 26 AWG / 4 x 2 x 24 AWG	
Conductor:	bare copper strands, fine wires	
Insulation:	special polymer	
Color code:	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown	
Stranding:	conductors twisted to pairs, pairs screened with alu foil, pairs together	
Screen:	aluminized non-woven tape	
Screen:	tinned copper braiding	
Wrapping:	non-woven tape	
Jacket material:	PUR	
Jacket color:	green (similar RAL 6018)	

Technical data:	CATLine CAT 7A S <i>suitable for cable tracks</i>	CATLine CAT 7A RT <i>suitable for robots</i>
Peak operating voltage:	max. 90 V	
Voltage UL/CSA:	300 V	
Testing voltage:	conductor/conductor 1500 V - conductor/screen 1200 V	
Temperature range VDE fixed laying: flexible application:	UL/CSA: up to + 80°C - 40°C / + 70°C - 40°C / + 70°C	
Min. bending radius fixed laying: flexible application: continuous flex:	5 x O.D. 10 x O.D. 15 x O.D.	5 x O.D. 10 x O.D.
Torsion:	—	up to \pm 180°/m
Characteristic impedance (100 MHz):	100 Ω \pm 5 Ω , accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-9-2 / CAT 7A	
Zero halogen:	acc. to DIN VDE 0472 part 815 + IEC 60754-1	
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 UL Horizontal Flame Test FT2	
Oil resistance:	TMPU acc. to EN 50363-10-2	
Flexibility:	very good	
Absence of harmful substances:	acc. to RoHS directive of the European Union, see page O/30	

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+90°C on request!

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Web site: www.sabcable.com