

# Industrial Ethernet Cables CAT 6 & 6A

**CATLine CAT 6 S / CAT 6A S** Gigabit Ethernet cable suitable for cable tracks

**CATLine CAT 6 RT / CAT 6A RT** Gigabit Ethernet cable suitable for cable tracks, suitable for robots



9 80°C 300V CSA AWM I/II A/B 80°C 300V FT2 CE



Marking for CATLine CAT 6 S 16774630:

SAB BRÖCKSKES · D-VIERSEN · CATLine Cat.6 S 4x2x26AWG 1677-4630 AWM Style 20549 80°C 300V CSA AWM I/II A/B 80°C 300V FT2 CE

<b>Construction:</b>	UL SF		UL SF	
	CATLine CAT 6 S <i>suitable for cable tracks</i>	CATLine CAT 6A S <i>suitable for cable tracks</i>	CATLine CAT 6 RT <i>suitable for cable tracks/ suitable for robots</i>	CATLine CAT 6A RT <i>suitable for cable tracks/ suitable for robots</i>
<b>Item numbers:</b>	16774630	16774631	16874630	16874631
<b>Dimensions:</b>	4 x 2 x 26 AWG	4 x 2 x 26 AWG	4 x 2 x 26 AWG	4 x 2 x 26 AWG
<b>Conductor:</b>	bare copper strands, fine wires	bare copper strands, fine wires	bare copper strands, fine wires	bare copper strands, fine wires
<b>Insulation:</b>	special polymer	special polymer	special polymer	special polymer
<b>Color code:</b>	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown		white-blue/blue, white-orange/orange, white-green/green, white-brown/brown	
<b>Stranding:</b>	conductors twisted to pairs, pairs together		conductors twisted to pairs, pairs together	
<b>Wrapping:</b>	non-woven tape	non-woven tape	non-woven tape	non-woven tape
<b>Shielding:</b>	alu foil	alu foil	alu foil	alu foil
<b>Shielding:</b>	tinned copper braiding	tinned copper braiding	tinned copper braiding	tinned copper braiding
<b>Wrapping:</b>	non-woven tape	non-woven tape	non-woven tape	non-woven tape
<b>Jacket material:</b>	PUR	PUR	PUR	PUR
<b>Jacket color:</b>	green (similar RAL 6018)	green (similar RAL 6018)	green (similar RAL 6018)	green (similar RAL 6018)

<b>Technical data:</b>	UL SF		UL SF	
	CATLine CAT 6 S <i>suitable for cable tracks</i>	CATLine CAT 6A S <i>suitable for cable tracks</i>	CATLine CAT 6 RT <i>suitable for cable tracks/ suitable for robots</i>	CATLine CAT 6A RT <i>suitable for cable tracks/ suitable for robots</i>
<b>Peak operating voltage:</b>	max. 90 V	max. 90 V	max. 90 V	max. 90 V
<b>Voltage UL/CSA:</b>	300 V	300 V	300 V	300 V
<b>Testing voltage:</b> conductor/conductor: conductor/shielding:	2000 V 2000 V	2000 V 2000 V	2000 V 2000 V	2000 V 2000 V
<b>Min. bending radius:</b> fixed installation free movement: continuous flex:	5 x O.D. 10 x O.D. 15 x O.D.	5 x O.D. 10 x O.D. 15 x O.D.	5 x O.D. 10 x O.D. 15 x O.D.	5 x O.D. 10 x O.D. 15 x O.D.
<b>Torsion:</b>	—	—	up to ± 180°/m	up to ± 180°/m
<b>Temperature range VDE:</b> static: flexible:	UL: up to +80°C -40/+70°C -40/+70°C	UL: up to +80°C -40/+70°C -40/+70°C	UL: up to +80°C -40/+70°C -40/+70°C	UL: up to +80°C -40/+70°C -40/+70°C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + VDE 0482-754-1	acc. to IEC 60754-1 + VDE 0482-754-1	acc. to IEC 60754-1 + VDE 0482-754-1	acc. to IEC 60754-1 + VDE 0482-754-1
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2; UL Horizontal Flame Test FT2			
<b>Oil resistance:</b>	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2		TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2	
<b>Characteristic impedance (100 MHz):</b> accomplishes the electrical and transmission requirements with high frequency	100Ω ± 10Ω, with reference to EN 50288-5-2 / CAT 6	100Ω ± 10Ω, with reference to EN 50288-10-2 / CAT 6A	100Ω ± 10Ω, with reference to EN 50288-5-2 / CAT 6	100Ω ± 10Ω, with reference to EN 50288-10-2 / CAT 6A
<b>Flexibility:</b>	very good	very good	very good	very good
<b>UL Style:</b>	20549	20549	20549	20549
<b>Application:</b>	suitable for EtherCAT and EtherNET/IP applications			
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union, see page O/30			

item no.	type	dimensions AWG	max. cond.-ø mm	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 16774630	CATLine CAT 6 S	26 (≈ 7/34)/4pr	1.05	0.280	7.1	38
▶ 16774631	CATLine CAT 6A S	26 (≈ 7/34)/4pr	1.05	0.280	7.1	38
▶ 16874630	CATLine CAT 6 RT	26 (≈ 7/34)/4pr	1.05	0.280	7.1	38
▶ 16874631	CATLine CAT 6A RT	26 (≈ 7/34)/4pr	1.05	0.280	7.1	38

Other dimensions and colors are available on request



**+90°C on request**

Also possible as a  
cable assembly with  
M12 or RJ 45 plug



www.sabcable.com  
866-722-2974 ■ info@sabcable.com