

# Industrial Ethernet Cables



**CATLine CAT 7A S** Gigabit Ethernet cable, suitable for cable tracks with UL recognition, CSA approval

**CATLine CAT 7A RT** Gigabit Ethernet cable, suitable for cable tracks, suitable for robots with UL recognition, CSA approval

549 80°C 300V CSA AWM I/II A/B 80°C 300V FT2 CE



Marking for CATLine CAT 7A S 17774631:

SAB BRÖCKSKES · D-VIERSEN · CATLine Cat.7A S 4x2x26AWG 1777-4631 AWM Style 20549 80°C 300V CSA AWM I/II A/B 80°C 300V FT2 CE



<b>Construction:</b>	CATLine CAT 7A S <i>suitable for cable tracks</i>	CATLine CAT 7A RT <i>suitable for robots</i>
<b>Dimension:</b>	4 x 2 x 26 AWG, 4 x 2 x 24 AWG	
<b>Conductor:</b>	bare copper strands, fine wires	
<b>Insulation:</b>	special polymer	
<b>Colour code:</b>	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown	
<b>Stranding:</b>	cores twisted to pairs, pairs screened with foil, pairs together	
<b>Screen:</b>	aluminized non-woven tape and tinned copper braiding	
<b>Wrapping:</b>	non-woven tape	
<b>Sheath material:</b>	PUR	
<b>Sheath colour:</b>	green (similar RAL 6018)	

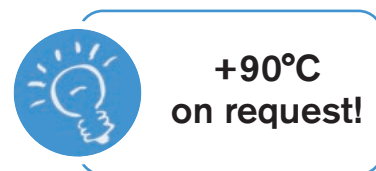
## Technical data:

	CATLine CAT 7A S <i>suitable for cable tracks</i>	CATLine CAT 7A RT <i>suitable for robots</i>
<b>Item number:</b>	1777-4631, 1777-4431	1787-4631, 1787-4431
<b>Peak operating voltage:</b>	max. 90 V	
<b>Voltage UL/CSA:</b>	300 V	
<b>Testing voltage</b> core/core: core/screen:	2000 V 2000 V	
<b>Min. bending radius</b> fixed laying: flexible application: continuously flexible:	5 x d 10 x d 15 x d	5 x d 10 x d
<b>Torsion angle:</b>	up to ± 180°/m	
<b>Temperature range VDE</b> fixed laying: flexible application:	UL/CSA: up to +80 °C -40/+70 °C -40/+70 °C	
<b>Halogen-free:</b>	acc. to IEC 60754-1 + VDE 0482-754-1	
<b>Fire performance:</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	
<b>Characteristic impedance (100 MHz):</b>	100Ω ± 10Ω, fulfils the electrical and transmission requirements with high frequency with reference to EN 50288-9-2 + VDE 0819-9-2 / CAT 7A	
<b>Flexibility:</b>	very good	
<b>UL Style:</b>	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 chapter N „Technical data“	

E  
46

item no.	type	dimension	max. core-ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈kg/km
17774631	CATLine CAT 7A S	4 x 2 x 26 AWG	1,50	8,5	38,5	81
17774431	CATLine CAT 7A S	4 x 2 x 24 AWG	1,60	10,4	46,6	101
17874631	CATLine CAT 7A RT	4 x 2 x 26 AWG	1,50	8,9	38,5	83
17874431	CATLine CAT 7A RT	4 x 2 x 24 AWG	1,60	9,3	44,0	98

Other dimensions and colours are possible on request.



Also possible as harnessed cable with M12 or RJ 45 plug!



www.sab-cable.com