

# Industrial Ethernet Cables CAT 7A

**CATLine CAT 7A S** Gigabit Ethernet cable suitable for cable tracks

**CATLine CAT 7A RT** Gigabit Ethernet cable suitable for suitable for robots



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 17774631 AWM Style 20549 80°C 300V CSA AWM I/II A/B 80°C 300V FT2 CE



<b>Construction:</b>	<b>CATLine CAT 7A S</b> <i>suitable for cable tracks</i>	<b>CATLine CAT 7A RT</b> <i>suitable for robots</i>
<b>Item numbers:</b>	17774631 / 17774431	17874631 / 17874431
<b>Dimensions:</b>	4 x 2 x 26 AWG / 4 x 2 x 24 AWG	4 x 2 x 26 AWG / 4 x 2 x 24 AWG
<b>Conductors:</b>	bare copper strands, fine wires	bare copper strands, fine wires
<b>Insulation:</b>	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 shielded with foil, pairs together	conductors twisted to pairs, pairs shielded with foil, pairs together
<b>Shielding:</b>	aluminized non-woven tape	aluminized non-woven tape
<b>Shielding:</b>	tinned copper braiding	tinned copper braiding
<b>Wrapping:</b>	non-woven tape	non-woven tape
<b>Jacket material:</b>	PUR	PUR
<b>Jacket color:</b>	green (similar RAL 6018)	green (similar RAL 6018)

<b>Technical data:</b>	<b>CATLine CAT 7A S</b> <i>suitable for cable tracks</i>	<b>CATLine CAT 7A RT</b> <i>suitable for robots</i>
<b>Peak operating voltage:</b>	max. 90 V	max. 90V
<b>Voltage UL/CSA:</b>	300 V	300 V
<b>Testing voltage:</b> conductor/conductor: conductor/shielding:	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. —
<b>Torsion angle:</b>	—	up to ± 180°/m
<b>Temperature range DIN VDE:</b> static: flexible:	<b>UL/CSA:</b> up to +80°C -40/+70°C -40/+70°C	<b>UL/CSA:</b> 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
<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	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>	100Ω ± 10Ω, accomplishes 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	very good
<b>UL Style:</b>	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	outer-ø ±10% inch	outer-ø ±10% mm	cable weight ≈lbs/mft
▶ 17774631	CATLine CAT 7A S	26 (≈ 7/34)/4pr	1.50	0.355	8.5	54
▶ 17774431	CATLine CAT 7A S	24 (≈ 7/34)/4pr	1.60	0.409	10.4	68
▶ 17874631	CATLine CAT 7A RT	26 (≈ 7/34)/4pr	1.50	0.350	8.9	56
▶ 17874431	CATLine CAT 7A RT	24 (≈ 7/34)/4pr	1.60	0.366	9.3	66

Other dimensions and colors are available on request

**+90°C**  
on request

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

**CABLE ASSEMBLY POSSIBLE**

