

# Industrial Ethernet Cables for Maritime Use



**CATLine CAT 5e BL** Halogen-free CAT 5e industrial Ethernet cables for maritime use

**CATLine CAT 6A BL** Halogen-free CAT 6A industrial Ethernet cables for maritime use

**CATLine CAT 7A BL** Halogen-free CAT 7A industrial Ethernet cables for maritime use



24AWG 17474421 AWM Style 21080 75°C 300V



Marking for CATLine CAT 7A BL 17474421:

SAB BRÖCKSKES · D-VIERSEN · **CATLine** Cat.7A BL 4x2x24AWG 17474421 AWM Style 21080 75°C 300V



<b>Construction:</b>	CATLine CAT 5e BL		CATLine CAT 6A BL		CATLine CAT 7A BL	
<b>Item numbers:</b>	15479001 15479002	15474621	16474621 16474421	17474621 17474421		
<b>Dimensions:</b>	2 x 2 x 24 AWG 2 x 2 x 22 AWG	4 x 2 x 26 AWG	4 x 2 x 24 AWG 4 x 2 x 26 AWG	4 x 2 x 24 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	
<b>Insulation:</b>	special polymer		special polymer		special polymer	
<b>Color code:</b>	blue, yellow, white, orange	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>	star quad	conductors twisted to pairs, pairs together		conductors twisted to pairs, pairs shielded with foil, pairs together		
<b>Wrapping:</b>	alu foil		alu foil		—	
<b>Shielding:</b>	tinned copper braiding		tinned copper braiding		tinned copper braiding	
<b>Jacket material:</b>	special SABIX®		special SABIX®		special SABIX®	
<b>Jacket color:</b>	black		black		black	
<b>Technical data:</b>	CATLine CAT 5e BL		CATLine CAT 6A BL		CATLine CAT 7A BL	
<b>Peak operating voltage:</b>	max. 90 V		max. 90 V		max. 90 V	
<b>Voltage UL:</b>	300 V		300 V		300 V	
<b>Testing voltage:</b>						
conductor/conductor:	2000 V		2000 V		2000 V	
conductor/shielding:	2000 V		2000 V		2000 V	
<b>Min. bending radius:</b>						
fixed installation	5 x O.D.		5 x O.D.		5 x O.D.	
free movement (only 7 wires):	10 x O.D.		10 x O.D.		10 x O.D.	
<b>Temperature range VDE:</b>						
static:	UL: up to +75°C -40/+70°C		UL: up to +75°C -40/+70°C		UL: up to +75°C -40/+70°C	
flexible:	-30/+70°C		-30/+70°C		-30/+70°C	
<b>Low smoke halogen-free (LSHF):</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	
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, no flame propagation acc. to IEC 60332-3-22 + VDE 0482-332-3-22 Cat. A, UL Horizontal Flame Test FT2, UL AWM Style 21080					
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases					
<b>Smoke density:</b>	acc. to IEC 61034 + VDE 0482-1034		acc. to IEC 61034 + VDE 0482-1034		acc. to IEC 61034 + VDE 0482-1034	
<b>Characteristic impedance (100 MHz):</b>	100Ω ± 10Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-2-2 / CAT 5		100Ω ± 10Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-10-2 / CAT 6A		100Ω ± 10Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-9-2 / CAT 7A	
<b>Flexibility:</b>	good		good		good	
<b>UL Style:</b>	21080		21080		21080	
<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	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 15479001	CATLine CAT 5e BL	24 (7 strand)/2pr	0.224	5.7	32
▶ 15479002	CATLine CAT 5e BL	22 (7 strand)/2pr	0.252	6.4	41
▶ 15474621	CATLine CAT 5e BL	26 (7 strand)/4pr	0.287	7.3	43
▶ 16474621	CATLine CAT 6A BL	26 (7 strand)/4pr	0.287	7.3	43
▶ 16474421	CATLine CAT 6A BL	24 (7 strand)/4pr	0.327	8.3	54
▶ 17474621	CATLine CAT 7A BL	26 (7 strand)/4pr	0.350	8.9	57
▶ 17474421	CATLine CAT 7A BL	24 (7 strand)/4pr	0.413	10.5	78

Other dimensions and colors are available on request

Also possible as a cable assembly with M12 or RJ 45 plug **CABLE ASSEMBLY POSSIBLE**



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