

Industrial Ethernet cables

SAB^{clean} CATLine CAT 5e S
 SAB^{clean} CATLine CAT 6A S
 SAB^{clean} CATLine CAT 7A S

Industrial Ethernet Cable, suitable for cable tracks



SEN · CATLine Cat. 7A DR 4x2x26AWG 1739-4651 CE



marking example:

SAB BRÖCKSKES · D-VIERSEN · S Clean CATLine Cat. 7A S 4x2x26AWG 1777-9003 AWM Style 20549 80°C 300V CE RoHS and current meter marking

Construction:	SAB ^{clean} CATLine CAT 5e S	SAB ^{clean} CATLine CAT 6A S	SAB ^{clean} CATLine CAT 7A S
Dimension:	4 x 2 x 26 AWG		
Conductor:	bare copper strands, fine wires		
Insulation:	special polymer		
Colour code:	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown		
Stranding:	cores twisted to pairs, pairs together	cores twisted to pairs, pairs screened with foil, pairs together	
Screen:	alu foil and tinned copper braiding	aluminized non-woven tape and tinned copper braiding	
Wrapping:	non-woven tape		
Sheath material:	TPE		
Sheath colour:	black (RAL 9005)		

Technical data:	SAB ^{clean} CATLine CAT 5e S	SAB ^{clean} CATLine CAT 6A S	SAB ^{clean} CATLine CAT 7A S
Dimension:	1577-9001	1677-9006	1777-9003
Peak operating voltage:	max. 90 V		
Voltage UL:	300 V		
Testing voltage core/core:	2000 V		
core/screen:	2000 V		
Min. bending radius fixed laying:	5 x d		
flexible application:	10 x d		
continuously flexible:	15 x d		
Temperature range fixed laying:	UL: up to +80 °C -40/+70 °C		
flexible application:	-30/+70 °C		
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL Horizontal Flame Test FT2		
Characteristic impedance:	100Ω ± 10Ω, fulfils the electrical and transmission requirements with high frequency with reference to EN 50288-2-2 / CAT 5	100Ω ± 10Ω, fulfils the electrical and transmission requirements with high frequency with reference to EN 50288-10-2 / CAT 6A	100Ω ± 10Ω, fulfils the electrical and transmission requirements with high frequency with reference to EN 50288-9-2 / CAT 7A
Oil resistance:	very good - Oil 60 °C acc. to UL 758		
Flexibility:	very good		
Air cleanliness class 1:	acc. to DIN EN 14644-1		
UL Style:	20549		
Application:	suitable for EtherCAT and EtherNET/IP applications		
Absence of harmful substances:	acc. to RoHS directive of the European Union		

item no.	type	dimension	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
15779001	SAB Clean CATLine CAT 5e S	4 x 2 x 26 AWG	6,4	31,8	48
16779006	SAB Clean CATLine CAT 6A S	4 x 2 x 26 AWG	6,9	31,8	56
17779003	SAB Clean CATLine CAT 7A S	4 x 2 x 26 AWG	8,9	38,5	85

Other dimensions and colours are possible on request.

Cleanroom classification
 DIN EN ISO 14644-1
 air cleanliness class 1



Customized plug-and-play solutions
 from cable manufacturing
 to customized cable assembly
 from a single source