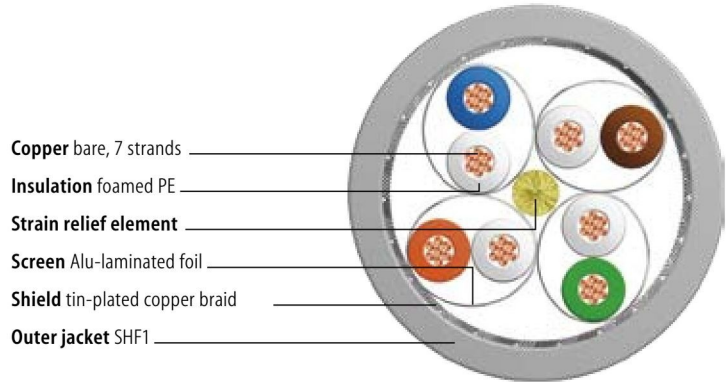


LAN Cable CAT 7



Germanischer Lloyd



Application

Flexible installation on and below deck of commercial ships without constant exposure to oil, grease and other lubricants. The cables meet the technical requirements of IEC 60092-359 as well as EN 5288-1 & -4-2.

Technical data

DC resistance $\leq 84 \Omega/\text{km}$

Insulation resistance $\geq 5 \text{ G}\Omega \cdot \text{km}$

Capacity 42.5 nF/km nom.

Operating voltage 125 V max.

Characteristic impedance [100 MHz] $100 \pm 5 \Omega$

Testing voltage (core/core) 1000 V at rms 50 Hz 1 min

Testing voltage (core/shield) 1000 V at rms 50 Hz 1 min

Mechanical properties

Temperature range during operation **-20 °C to +75 °C**
 during installation **0 °C to +55 °C**

Bending radius during operation 5 x D
 during installation 10 x D

Burning characteristics

IEC 60332-1-2, IEC 60332-3-24, IEC 61034-1 & -2, IEC 60754-1 & -2, EN 50286-1 & -4-2

Cable construction

Designation	Core-Ø [mm]	Cable-Ø [mm]	Weight [kg/km]	Colour code	Reference
	nom.	nom.	nom.		
KS-02YSCH 4 x 2 x AWG 24/7 PIMF	1.4	9.0	85	□/□/□/□/□/□/□	L45467-J415-C6

Frequency MHz	Attenuation		NEXT		ACR		PS-NEXT		PS-ACR		EL-FEXT		PS-ELFEXT		RL (ffs)	
	LEONI nom. dB/10m	CAT 7 max. dB/10m	LEONI nom. dB/10m	CAT 7 min. dB/10m	LEONI nom. dB/10m	CAT 7 min. dB/10m	LEONI nom. dB/10m	CAT 7 min. dB/10m	LEONI nom. dB/10m	CAT 7 min. dB/10m	LEONI nom. dB/10m	CAT 7 min. dB/10m	LEONI nom. dB/10m	CAT 7 min. dB/10m	LEONI nom. dB/10m	CAT 7 min. dB/10m
1	0.23	0.29	90	80.0	89.8	79.7	87	77.0	86.8	76.7	90		87			
4	0.4	0.55	90	80.0	89.6	79.4	87	77.0	86.6	76.4	90	80.0	87	77.0	25.0	23.0
10	0.63	0.85	90	80.0	89.4	79.2	87	77.0	86.4	76.2	90	74.0	87	71.0	30.0	24.5
16	0.79	1.08	90	80.0	89.2	78.9	87	77.0	86.2	75.9	90	69.9	87	66.9	30.0	25.0
20	0.91	1.21	90	80.0	89.1	78.8	87	77.0	86.1	75.8	85	68.0	82	65.0	30.0	25.0
31.25	1.13	1.52	90	80.0	88.9	78.5	87	77.0	85.9	75.5	83	64.1	80	61.1	28.0	23.6
62.5	1.61	2.17	85	75.1	83.4	72.9	82	72.5	80.4	70.3	73	58.1	70	55.1	25.0	21.5
100	2.07	2.78	81	72.4	78.9	69.6	78	69.4	75.9	66.6	64	54.0	61	51.0	24.0	20.1
155	2.63	3.5	78	69.6	75.4	66.1	75	66.6	72.4	63.1	59	50.2	56	47.2	24.0	18.8
200	3.07	4.01	76	67.9	72.9	63.9	73	64.9	69.9	60.9	57	48.0	54	45.0	24.0	18.0
300	3.81	5	73	65.3	69.2	60.3	70	62.3	66.2	57.3	52	44.5	49	41.5	24.0	17.3
600	5.23	7.33	68	60.8	62.8	53.4	65	57.8	59.8	50.5	46	38.4	43	35.4	21.0	17.3