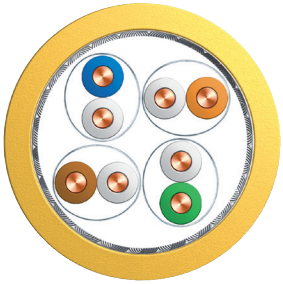
Cat 8 4x2x22/1awg PiMF CAT8 IE 1500MHz High Performance LSFROH

Cable Design



Wire	
Conductor	Solid bare copper wire, 23/1awg
Insulation	Cellular-PE Ø 1,60 mm
Screened Pair	2 wires twisted to a pair
Screen	Aluminium/polyester tape wrapped
Formation	4 screened pairs stranded
Pair Identification	WH/BU - WH/OG - WH/GN - WH/BN
Braid	Tinned copper wire braid
Outer Jacket	LSZH FireFighter®
Diameter	Ø 8,60 mm

Application

Installation cable for use in structured cabling systems acc. to ISO/IEC 11801 and EN 50173 (2nd edition) and for home cabling systems acc. to ISO/IEC 15018 and EN 50172-4.
Ideal for all applications from Classes D to FA Multimedia (TV, video, data, voice) > 10 GbE acc. to IEEE 802.3 an, cable sharing, VoIP, PoE.

Specification

Part Number	Type
7KS8001	Yellow 7KS80001 4x2x22/1awg PiMF CAT8 IE 1500MHz High Performance LSFROH

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Electrical Data @ 20˚C

DC resistance (max.)	57.1 Ω/km
Insulation resistance (min.)	5 GΩ x km
Mutual capacitance (approx.)	42 pF/km
Capacitance coupling (e) (approx.)	1000 pF/km
Signal velocity (c) (approx.)	0.80
Propagation delay (approx.)	420 ns/100m
Skew at 100 MHz (approx.)	3 ns/100m
Characteristic impedance at 100 MHz	100 ± Ω
Transfer Impedance at 10 MHz (nom.)	2 mΩ/m
Shielding Attenuation up to 1,200 MHz (nom.)	80 dB
Coupling Attenuation up to 1,200 MHz (nom.)	90 dB
Testing voltage Ueff	1000 V
Operating voltage (max.)	125 V

Frequency (MHz)	Attenuation (dB/100m)		NEXT (dB)		PSNEXT (dB)		ACR (dB/100m)		PSACR (dB/100m)		ELFEXT (dB/100m)		PSELFEXT (dB/100m)		RL (dB)	
	typ.	Cat "8" max.*	typ.	Cat "8" min.*	typ.	Cat "8" min.*	typ.	Cat "8" min.*	typ.	Cat "8" min.*	typ.	Cat "8" min.*	typ.	Cat "8" min.*	typ.	Cat "8" min.*
1	1.6	1.9	110	80	107	77	108	78	105	75	109	80	106	77	26.1	23
10	4.2	5.4	110	78	107	75	106	72	103	69	109	74	106	71	32.3	25
100	14.4	17.5	110	76	107	73	96	58	93	55	93	54	90	51	36.2	20.1
200	21.5	25.3	110	72	107	69	88	47	85	46	86	48	83	45	35.5	18
250	24.5	28.5	105	70	102	67	81	42	78	39	83	46	80	43	34.8	17.3
500	34	41.8	105	65.5	102	62.5	71	24	68	21	70	40	67	37	31.8	17.3
600	37.7	46.3	100	64.3	97	61.3	62	18	59	15	64	38.4	61	35.4	28.5	17.3
800	44.5	54.5	95	62.5	92	59.5	50	8	47	5	58	35.9	55	32.9	25.3	16.1
900	48.1	58.4	95	61.7	92	58.7	47	3	44	0	54	34.9	51	31.9	23.8	15.5
1,000	49	62	92	61	89	58	43	-1.1	40	-4	49	34	46	31	22.2	15.1
1,200	54.9	69	88	59.8	85	56.8	34	-9	31	-12	40	32.4	37	29.4	20.2	14.3
1,300	57	-	81	-	78	-	24	-	21	-	35	-	22	-	18.3	-
1,400	58.1	-	74	-	71	-	16	-	13	-	30	-	27	-	16.3	-
1,500	62	-	73	-	70	-	11	-	8	-	25	-	27	-	12.3	-

* EN 50288-4-4(2004)/IEC 61156-5(2002)/IEC 61156-7(2003)