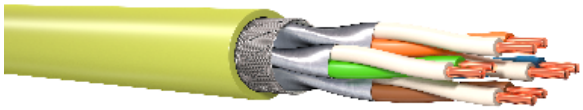
KERPEN DATACOM

MegaLine® F10-125 S/F Cca

KS-02YSCH 4 x 2 x AWG 22/1 PIMF

Category 7_A **S_4 P_5 A_5 C_5 E_5**



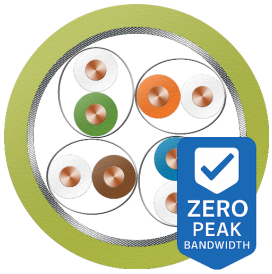


Illustration similar

Construction

Conductor	bare copper wire, 0.62 mm Ø	Twisting	PiMF to cable core
Insulation	cellular-PE, Core-Ø: nominal value 1.50 mm	Overall screen	tinned copper wire braid
Colour code	WH/BU, WH/OG, WH/GN, WH/BN	Outer sheath	Halogen free flame retardant compound (FRNC)
Element	cores to pair		
Pair shielding	aluminium-bonded polyester tape	Colour	Lime green

Cable marking

KERPEN DATACOM Made in Germany MegaLine F10-125 S/F 4P LSOH Cat.7A 1300MHz 25G 4PPoE 100W Cca s1a d1 a1 DoP: CDESK0000034 $BA-Nr.$ $m-sign.$

Fire Behaviour

Fire performance	EN 50575 / EN 50399
Circuit integritiy	[-]
Flame retardancy	IEC 60332-3-24
Halogen-free	IEC 60754-1, IEC 60754-2
Acidity	IEC 60754-2
Smoke density	IEC 61034-2
Fire load (approx.)	0.65 MJ/m

S	1 IEC 60332-2-2	2 IEC 60332-1-2	3 IEC 60332-3-24	4 EFP Grade 1	5 EFP Grade 2

Security (fire behaviour)

Performance

Better than Category 7_A acc. to EN 50288 and IEC 61156 excellent NEXT, low attenuation, exzellent screen properties (pair- and overall screen), low Skew

Bandwidth (max.) 1400 MHz

P	1 >class E >250MHz	2 >class E >500MHz	3 >class F >600MHz	4 >class F >1000MHz	5 >class G >1200MHz

Performance (class, bandwidth)

Applications

Installation cable for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (3nd edition). Ideal for all applications of class D up to FA Multimedia (Video, Data, Voice), 10-25 GbE acc. to IEEE 802.3 an/bq, Cable sharing, VoIP, PoE/PoE +/4PPoE

A	1 >100 MbE	2 > 1GbE	3 bis 10 GbE	4 >10 GbE	5 >10 GbE / TV

Application (Ethernet, TV)

Mechanical characteristics (cable)

Bending radius (static) (min.)	4x outer-Ø
Bending radius (dynamic) (min.)	8x outer-Ø
Tensile strength	110 N
Crush resistance (long term)	1000 N/100mm
Impact strength (quantity of impacts)	10

C	1 AWG 27	2 AWG 26/25	3 AWG 24	4 AWG 23	5 AWG 22

Construction (conductor size, tensile strengh)

Electromagnetic behaviour

Coupling resistance @ 10 MHz (nom.)	5 mΩ/m
Screen attenuation (nom.)	70 dB
Coupling attenuation (nom.)	85 dB
Segregation class according to EN 50174-2	d

E	1 > 40 dB	2 > 50 dB	3 > 60 dB	4 > 70 dB	5 > 80 dB

EMC (coupling attentuation)

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Category 7_A **S_4 P_5 A_5 C_5 E_5**

Electrical properties at 20°C

DC resistance (max.)	65 Ω/km
Insulation resistance (min.)	5 GΩ x km
Operating capacity (approx.)	42 pF/m
Capacitive coupling (e) (approx.)	1100 pF/km
Signal velocity (approx.)	0.78 x c
Phase delay	420 ns/100m
Skew @ 100 MHz (approx.)	5 ns/100m
Characteristic impedance @ 100 MHz	100 +/- 5 Ω
Peak-Free Transmission Bandwidth	1400 MHz
Test voltage	1000 V
Operating voltage (max.)	125 V

Thermal characteristics (cable)

Transport / storage	-20 °C up to +60 °C
During installation	0 °C up to +50 °C
After installation	-20 °C up to +60 °C

Chemical characteristics

Conform to RoHS and REACH

Frequency MHz	Attenuation dB/100m		NEXT dB		PSNEXT dB		ACR-N dB@100m		PSACR-N dB@100m		ACR-F dB@100m		PSACR-F dB@100m		RL dB	
	typ.	$Cat.7_A$ max.*	typ.	$Cat.7_A$ min.*	typ.	$Cat.7_A$ min.*	typ.	$Cat.7_A$ min.*	typ.	$Cat.7_A$ min.*	typ.	$Cat.7_A$ min.*	typ.	$Cat.7_A$ min.*	typ.	$Cat.7_A$ min.*
1	1,8	2,1	105	78	102	75	104	75,9	101	72,9	105	78	102	75	32,6	-
10	4,7	5,8	105	78	102	75	104	75,9	101	72,9	105	78	102	75	31,5	25,0
100	15,9	18,5	105	75	102	72	89	56,9	86	53,9	93	65	90	62	29,0	20,1
200	23,5	26,5	105	71	102	68	81	44,4	78	41,4	85	59	82	56	25,4	18,0
250	26,6	29,7	105	69	102	68	79	39,7	76	36,7	82	57	79	54	24,1	17,3
500	37,0	42,8	100	65	97	62	63	22,1	60	19,1	70	51	67	48	21,6	17,3
600	41,8	47,1	95	64	92	61	53	16,6	50	13,6	60	50	60	47	19,8	17,3
700	45,2	51,1	95	63	92	60	50	11,6	47	8,6	60	48	57	45	21,1	16,6
800	48,0	54,9	93	62	90	59	45	7,0	42	4,0	57	47	54	44	21,0	16,1
900	52,3	58,5	90	61	87	58	38	2,6	35	-0,4	53	46	50	43	20,0	15,5
1000	55,2	61,9	88	60	85	57	33	-1,5	30	-4,5	48	45	45	42	20,0	15,1
1100	57,6	-	87	-	84	-	29	-	26	-	44	-	41	-	18,8	-
1300	64,9	-	80	-	77	-	15	-	13	-	39	-	36	-	17,6	-

* EN 50288-9-1(2013) / IEC 61156-5(2020)

Standards, certificates and approvals

Conformity	to CPR (EU/305/2011) acc. to LVD (2014/35/EU)
Link Performance	KERPEN DATACOM MegaLine® systems and further commercial plug-inn connector
Inspection certificate	acc. to DIN 55350-18-4.2.1 bzw. EN 10204

Part number	Weight	Copper weight	Outer Ø approx.	PU (pieces)	Colour
KD7D67C3N000100	64 kg/km	38 kg/km	7.7 mm	1	Lime green

Packaging

1000 m cable drum

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