

MegaLine[®] Pro 1500 Dca

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

Category 7_A S₃ P₅ A₅ C₅ E₅

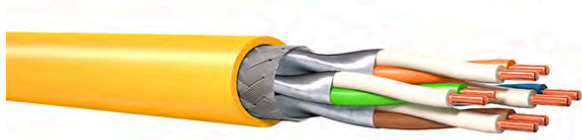


Illustration similar

Construction

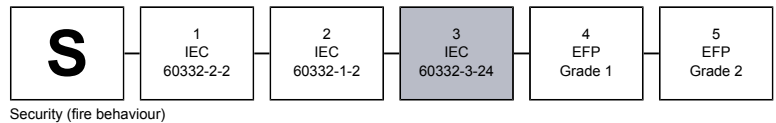
Conductor	bare copper wire, 0.62 mm	Twisting	PiMF to cable core
Insulation	cellular-PE, Core-Ø: nominal value 1.50 mm	Overall screen	tinned copper wire braid
Colour code	WH/BU, WH/OG, WH/GN, WH/BN	Outer sheath	Halogen free flame retardant compound (LSOH)
Element	cores to pair	Colour	Colza yellow
Pair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

Cable marking

KERPEN DATACOM Made in Germany MegaLine PRO 1500 Cat.7A 1500MHz 25G 4PPoE Dca DoP: CDESK0000007 \$BA-Nr.\$ \$m-sign.\$

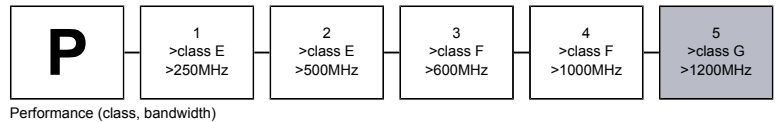
Fire Behaviour

Fire class / DoP	Dca -s2,d2,a1 / CDESK0000007
Fire performance	EN 50575 / EN 50399
Flame retardancy	IEC 60332-3-24
Halogen-free	IEC 60754-1/2
Acidity	IEC 60754-2
Smoke density	IEC 61034-2
Fire load (approx.)	0.66 MJ/m



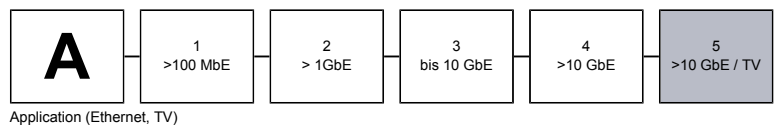
Performance

better than Category 7_A acc. to EN 50288 and IEC 61156
 excellent NEXT, low attenuation, excellent screen properties
 (pair- and overall screen), low Skew
 Bandwidth (max.) 1500 MHz



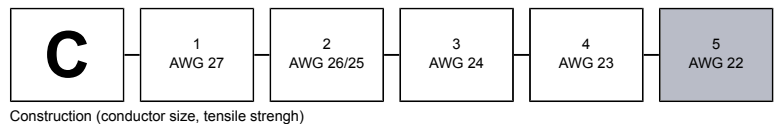
Applications

Installation cable for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (3rd edition) and for residential cabling acc. to ISO/IEC 15018 and EN 50173-4. Ideal for all applications of class D up to FA Multimedia (TV, Video, Data, Voice) >10 GbE acc. to IEEE 802.3 an, Cable sharing, VoIP, PoE/PoE+/4PPoE



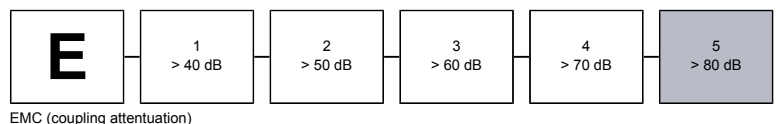
Mechanical characteristics (cable)

Bending radius (static) (min.)	4x outer-Ø
Bending radius (dynamic) (min.)	8x outer-Ø
Max. strain relief	130 N
Crush resistance (long term)	1000 N/100mm
Impact strength (quantity of impacts)	10



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



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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.)	1000 pF/km
Signal velocity (approx.)	0.77 x c
Phase delay	420 ns/100m
Skew @ 100 MHz (approx.)	3 ns/100m
Characteristic impedance @ 100 MHz	100 +/- 5 Ω
Test voltage	1000 V
Operating voltage (max.)	125 V

Thermal characteristics (cable)

Temperature (transport / storage)	-20 °C up to +60 °C
Temperature during installation	0 °C up to +50 °C
Temperature after installation	-20 °C up to +60 °C

Chemical characteristics

Conform to RoHS and REACH

Frequenz 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.7A max.*	typ.	Cat.7A min.*	typ.	Cat.7A min.*	typ.	Cat.7A min.*	typ.	Cat.7A min.*	typ.	Cat.7A min.*	typ.	Cat.7A min.*	typ.	Cat.7A min.*
1	1,8	2,1	105	78	102	75	103	75,9	100	72,9	106	78	103	75	32	20
10	4,7	5,8	105	78	102	75	100	72,2	97	69,2	98	75,3	95	72,3	35	25
100	16,4	18,5	105	75,4	102	72,4	89	56,9	86	53,9	87	55,3	84	52,3	26	20,1
200	23,6	26,5	101	70,9	98	67,9	77	44,4	74	41,4	80	49,3	77	46,3	25	18
250	26,4	29,7	101	69,4	98	66,4	74	39,7	71	36,7	77	47,3	74	44,3	23	17,3
500	38,2	42,8	100	64,9	97	61,9	62	22,2	59	19,2	64	41,3	61	38,3	21	17,3
600	42	47,1	100	63,7	97	60,7	58	16,6	55	13,6	59	39,7	56	36,7	21	17,3
800	48,5	54,9	95	61,9	92	58,9	46	6,9	43	3,9	53	37,2	50	34,2	19	16,1
900	52	58,5	95	61,1	92	58,1	43	2,6	40	-,4	49	36,2	46	33,2	18	15,5
1000	55,3	61,9	92	60,4	89	57,4	37	-1,5	34	-4,5	45	35,3	42	32,3	18	15,1
1200	61,7	-	88	-	85	-	26	-	23	-	38	-	35	-	18	-
1300	64,8	-	81	-	78	-	16	-	13	-	35	-	32	-	16	-
1400	66,2	-	74	-	71	-	8	-	5	-	34	-	31	-	10	-
1500	68,5	-	73	-	70	-	5	-	2	-	31	-	28	-	9	-

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

Standards, certificates and approvals

Link Performance

KERPEN DATACOM MegaLine[®] systems and further commercial plug-in connector

Inspection certificate

acc. to DIN 55350-18-4.2.1 bzw. EN 10204

Part number	Weight	Copper weight	Outer Ø approx.	Colour
LKD7KS800260000	64 kg/km	38 kg/km	7.9 mm	Colza yellow

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