

MegaLine[®] Pro 1000 Dca

KS-02YSCH 2x (4 x 2 x AWG 23/1 PIMF)

Category 7 **S₃ P₃ A₄ C₄ E₅**

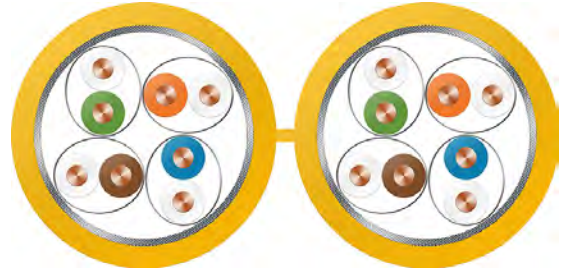
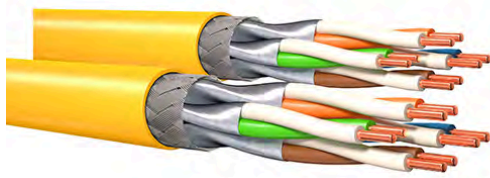


Illustration similar

Construction

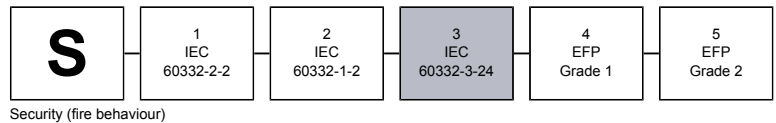
Conductor	bare copper wire, 0.58 mm	Twisting	PiMF to cable core
Insulation	cellular-PE, Core-Ø: nominal value 1.30 mm	Overall screen	tinned copper wire braid
Colour code	WH/BU, WH/OG, WH/GN, WH/BN	Outer sheath	Halogen free flame retardant compound (LSOH)
Element	cores to pair	Colour	Colza yellow
Pair shielding	aluminium-bonded polyester tape		

Cable marking

KERPEN DATACOM Made in Germany MegaLine PRO 1000 LSOH Cat.7 1000MHz Dca DoP: CDESK0000006 \$BA-Nr.\$ \$m-sign.\$

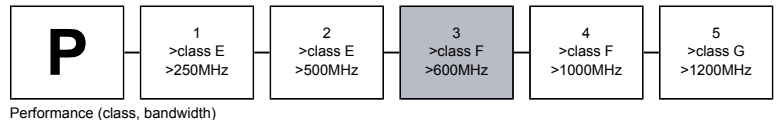
Fire Behaviour

Fire class / DoP	Dca -s1,d2,a1 / CDESK0000006
Fire performance	EN 50575 / EN 50399
Flame retardancy	IEC 60332-3-24 / EN 50266-2-4
Halogen-free	IEC 60754-1/2
Acidity	IEC 60754-2
Smoke density	IEC 61034-2
Fire load (approx.)	1.2 MJ/m



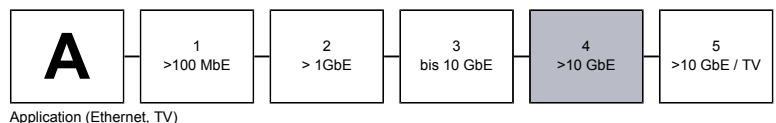
Performance

better than Category 7 acc. to EN 50288 and IEC 61156
 excellent NEXT, exzellente screen properties (pair- and overall screen), low Skew
 Bandwidth (max.) 1000 MHz



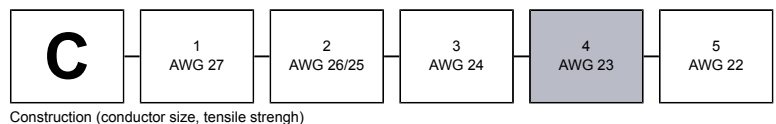
Applications

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



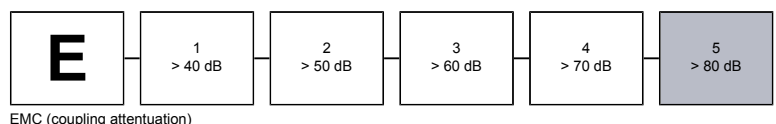
Mechanical characteristics (cable)

Bending radius (static) (min.)	4x outer-Ø
Bending radius (dynamic) (min.)	8x outer-Ø
Max. strain relief	220 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.)	78 Ω/km
Insulation resistance (min.)	5 GΩ x km
Operating capacity (approx.)	40 pF/m
Capacitive coupling (e) (approx.)	1100 pF/km
Signal velocity (approx.)	0.79 x c
Phase delay	400 ns/100m
Skew @ 100 MHz (approx.)	5 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.7 max.*	typ.	Cat.7 min.*	typ.	Cat.7 min.*	typ.	Cat.7 min.*	typ.	Cat.7 min.*	typ.	Cat.7 min.*	typ.	Cat.7 min.*	typ.	Cat.7 min.*
1	1,95	2,0	100	80	97	77	98	78,0	95	75,0	100	80	97	77	27,0	-
10	5,5	5,7	100	80	97	77	94	74,3	91	71,3	100	74	97	71	30,0	25,0
100	18,4	18,5	100	72	97	69	81	53,5	78	50,5	86	54	83	51	25,0	20,1
200	26,3	26,8	90	68	87	65	63	41,2	60	38,2	81	48	78	45	21,0	18,0
250	29,4	30,2	90	66	87	63	60	35,8	57	32,8	72	46	69	43	33,4	17,3
500	42,3	44,1	85	62	82	59	42	17,9	39	14,9	60	40	57	37	19,0	17,3
600	46,3	48,9	85	61	82	58	38	12,1	35	9,1	52	38	49	35	18,0	17,3
1000	64	-	70	-	67	-	6	-	3	-	29	-	26	-	5,0	-

* EN 50288-4-1(2014) / 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-in connector

Inspection certificate

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

Part number	Weight	Copper weight	Outer Ø approx.	Cable dimensions (W x H)	Colour
LKD7KS703080000	113 kg/km	64 kg/km	7.3 mm	14.8 x 7.4	Colza yellow

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Number: LKD7KS703080000
Up-dating K: 17.01.2024
Up-dating F: 25.01.2024