

MegaLine[®] PRO 1000 Dca

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

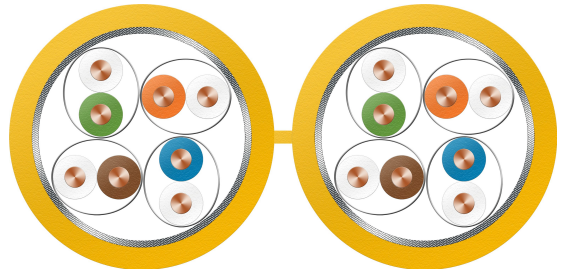
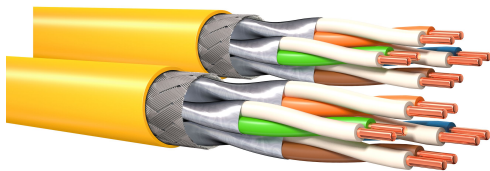
 Category 7 **S₃ P₃ A₄ C₄ E₅**


Illustration similar

Construction

Conductor bare copper wire, 0,58 mm/~AWG23/1
 Insulation cellular-PE, core-Ø: nominal value 1.3 mm
 Colour code wh/bl, wh/or, wh/gn, wh/br
 Element cores to pair
 Pair shielding aluminium-bonded polyester tape

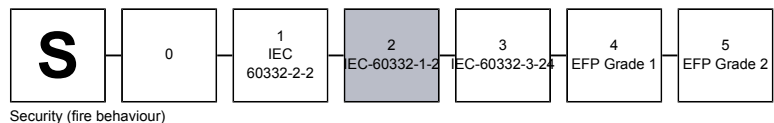
Twisting PiMF to cable core
 Overall screen tinned copper wire braid
 Outer sheath halogen-free compound, shape 8 siamese, 2 base elements in parallel
 Colour Colza yellow

Cable marking

KERPEN DATACOM Made in Germany MegaLine PRO 1000 Cat.7 Dca s1 d2 a1 DoP: CDESK0000006 \$BA-Nr.\$ \$m-sign.\$

Fire Behaviour

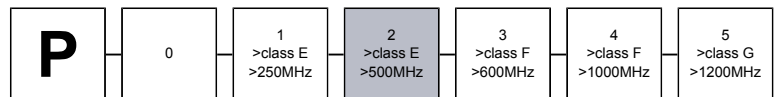
Fire class / DoP Dca -s1,d2,a1 / CDESK0000006
 Fire performance EN 50575 / EN 50399
 Flame retardancy IEC 60332-3-24 / EN 50266-2-4
 Halogen-free IEC 60754-1/2
 Acidity IEC 60754-2
 Smoke density IEC 61034-1/2
 Fire load (approx.) 1.2 MJ/m



Security (fire behaviour)

Performance

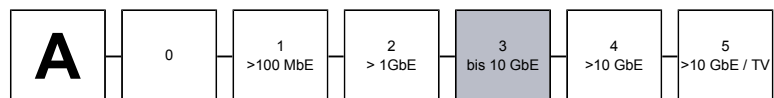
Transmission bandwidth (typ.) 1000 MHz



Performance (class, bandwidth)

Applications

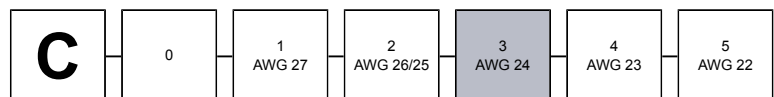
Installation cable for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (3rd edition). Ideal for all applications of class D up to F Multimedia (Video, Data, Voice) >10 GbE acc. to IEEE 802.3an, Cable sharing, VoIP, PoE/PoE+/4PPoE, suitable for outdoor use, UV-resistant



Application (Ethernet, TV)

Mechanical characteristics (cable)

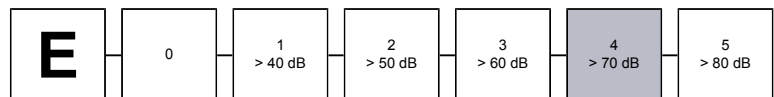
Bending radius (static) (min.) 4x outer-Ø
 Bending radius (dynamic) (min.) 8x outer-Ø
 Tensile loading (max.) 220 N
 Crush resistance (long term) 1000 N/100mm
 Impact strength (quantity of impacts) 10



Construction (conductor size, tensile strength)

Electromagnetic behaviour

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



EMC (coupling attenuation)

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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

Free of hazardous substances acc. to RoHS 2011/65/EU

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	Drum packing	Weight	copper weight	Outer Ø approx.	Cable dimensions (W x H)	Colour
LKD7KS703080050	500 m	120 kg/km	64 kg/km	7.5 mm	14.8 x 7.4	Colza yellow