

MegaLine[®] PRO 1000 Dca

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

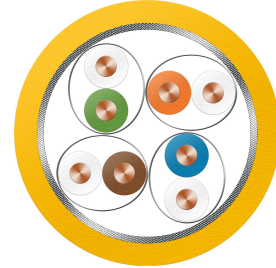
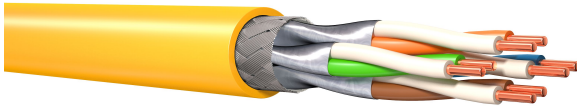
 Category 7 **S₃ P₃ A₄ C₄ E₅**


Illustration similar

Construction

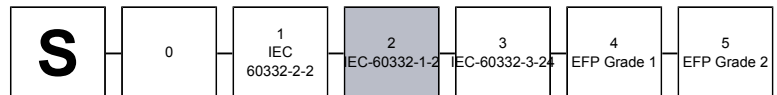
Conductor	bare copper wire, 0,58 mm/~AWG23/1	Twisting	PiMF to cable core
Insulation	cellular-PE, core-Ø: nominal value 1.3 mm	Overall screen	tinned copper wire braid
Colour code	wh/bl, wh/or, wh/gn, wh/br	Outer sheath	halogen free, flame retardant compound
Element	cores to pair	Colour	Colza yellow
Pair shielding	aluminium-bonded polyester tape		

Cable marking

KERPEN DATACOM Made in Germany MegaLine PRO 1000 Cat.7 Dca s1 d2 a1 DoP: CDESK0000005 \$BA-Nr.\$ \$m-sign.\$

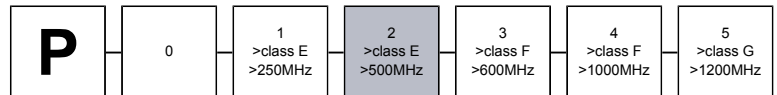
Fire Behaviour

Fire class / DoP	Dca s2 d2 a1 / CDESK0000005
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.)	0.6 MJ/m



Security (fire behaviour)

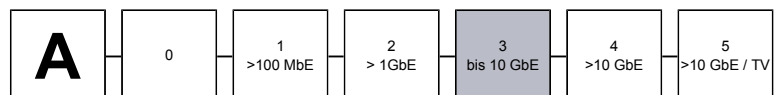
Performance

 Category 7 acc. to EN 50288 and IEC 61156 excellentNEXT, exzellente screen properties (pair- and overall screen), lowSkew
 Transmission bandwidth (typ.) 1000 MHz


Performance (class, bandwidth)

Applications

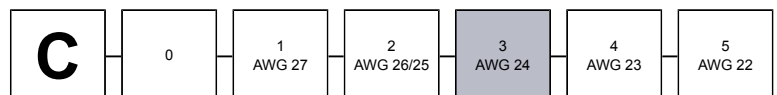
Installation cable for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (3rd edition). Ideal for all applications of class D up to F Multimedia (Video, Data, Voice) >10 GbE acc. to IEEE 802.3an, Cable sharing, VoIP, PoE/PoE+/4PPoE, suitable for outdoor use, UV-resistant



Application (Ethernet, TV)

Mechanical characteristics (cable)

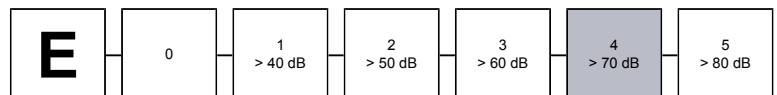
Bending radius (static) (min.)	4x outer-Ø
Bending radius (dynamic) (min.)	8x outer-Ø
Tensile loading (max.)	100 N
Crush resistance (long term)	1000 N/100mm
Impact strength (quantity of impacts)	10



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

 Category 7 **S₃ P₃ A₄ C₄ E₅**
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
 acc. to DIN 55350-18-4.2.1 bzw. EN 10204

Inspection certificate

Part number	Drum packing	Weight	copper weight	Outer Ø approx.	Colour
LKD7KS703050050	500 m	59 kg/km	32 kg/km	7.4 mm	Colza yellow