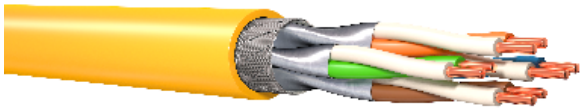
KERPEN DATACOM

MegaLine® Pro 1000 Dca

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

Category 7 **S_3 P_3 A_4 C_4 E_5**



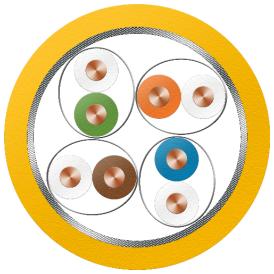


Illustration similar

Construction

Conductor	bare copper wire, 0.58 mm Ø	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 (FRNC)
Element	cores to pair		
Pair shielding	aluminium-bonded polyester tape	Colour	Colza yellow

Cable marking

KERPEN DATACOM Made in Germany MegaLine PRO 1000 4P LSOH Cat.7 10G 4PPoE Dca DoP: CDESK0000005 $BA-Nr.$ $m-sign.$

Fire Behaviour

Fire performance	EN 50575 / EN 50399
Flame retardancy	IEC 60332-3-24 / EN 50266-2-4
Halogen-free	IEC 60754-1, IEC 60754-2
Acidity	IEC 60754-2
Smoke density	IEC 61034-2
Fire load (approx.)	0.55 MJ/m

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

Security (fire behaviour)

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

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

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

A	1	2	3	4	5
	>100 MbE	> 1GbE	bis 10 GbE	>10 GbE	>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	2	3	4	5
	AWG 27	AWG 26/25	AWG 24	AWG 23	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	2	3	4	5
	> 40 dB	> 50 dB	> 60 dB	> 70 dB	> 80 dB

EMC (coupling attentuation)

Forwarding to third parties only with the approval of KERPEN DATACOM GmbH
We reserve the right to make technical modifications; typographical errors and mistakes excepted.

KERPEN DATACOM

MegaLine® Pro 1000 Dca

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

Category 7 **S_3 P_3 A_4 C_4 E_5**

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)

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 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-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
KD7D66D3Y030100	53 kg/km	32 kg/km	7 mm	1	Colza yellow

Forwarding to third parties only with the approval of KERPEN DATACOM GmbH
We reserve the right to make technical modifications; typographical errors and mistakes excepted.