

MegaLine[®] F10-130 S/F B2ca

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

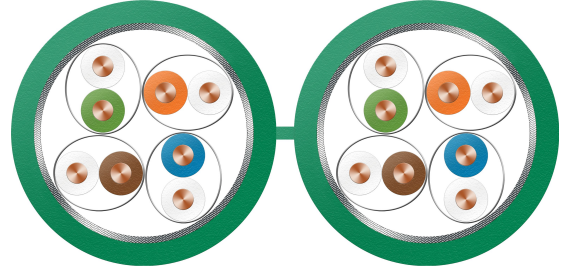
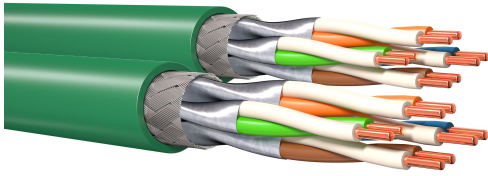
 Category 7_A **S₅ P₄ A₄ C₅ E₅**


Illustration similar

Construction

Conductor bare copper wire, AWG 22/1
 Insulation cellular-PE, core-Ø: nominal value 1.6 mm
 Colour code wh/bl, wh/or, wh/gn, wh/br
 Element cores to pair
 Pair shielding aluminium-bonded polyester tape

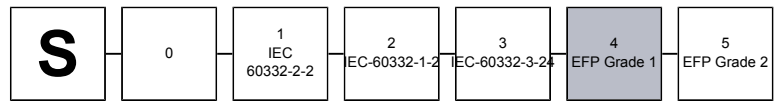
Twisting PiMF to cable core
 Overall screen tinned copper wire braid
 Outer sheath halogen-free compound, shape 8 siamese, 2 base elements in parallel
 Colour Yellow green

Cable marking

KERPEN DATACOM Made in Germany MegaLine F10-130 S/F 2x4P H Cat.7A 25G 4PPoE B2ca s1a d1 a1 DoP: CDESK0000033 \$BA-Nr.
 \$ \$m-sign.\$

Fire Behaviour

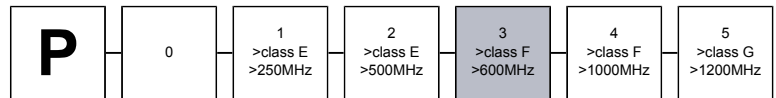
Fire class / DoP B2ca -s1a,d1,a1 / CDESK0000033
 Fire performance EN 50575 / EN 50399
 Flame retardancy acc. to IEC 60332-3-24
 Halogen-free IEC 60754-1/2
 Acidity IEC 60754-2
 Smoke density IEC 61034-1/2
 Fire load (approx.) 1.4 MJ/m



Security (fire behaviour)

Performance

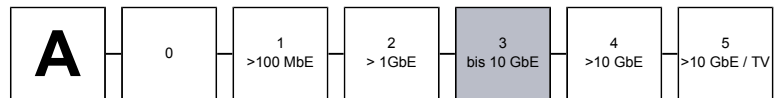
better than Category 7 acc. to EN 50288 and IEC 61156
 excellent NEXT, low attenuation, exzellente screen properties (pair- and overall screen), low Skew
 Transmission bandwidth (typ.) 1300 MHz



Performance (class, bandwidth)

Applications

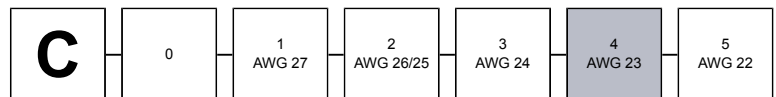
Installation cable for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (3rd edition). Ideal for all applications of class D up to FA Multimedia (Video, Data, Voice) >10 GbE acc. to IEEE 802.3 an, Cable sharing, VoIP, PoE/PoE+/4PPoE



Application (Ethernet, TV)

Mechanical characteristics (cable)

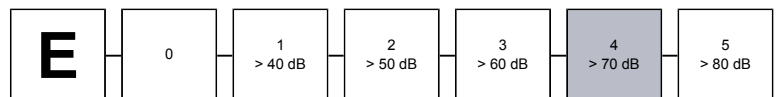
Bending radius (static) (min.) 4x outer-Ø
 Bending radius (dynamic) (min.) 8x outer-Ø
 Tensile loading (max.) 260 N
 Crush resistance (long term) 1000 N/100mm
 Impact strength (quantity of impacts) 10



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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 Category 7_A **S₅ P₄ A₄ C₅ E₅**
Electrical properties at 20°C

DC resistance (max.)	57.1 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.)	0.77 x c
Phase delay	420 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

frequenz MHz	attenuation dB/100m		NEXT dB		PS-NEXT dB		ACR dB@100m		PS-ACR dB@100m		ACR-F dB@100m		PSACR-F dB@100m		RL dB	
	typ.	Cat.7 _A max.*	typ.	Cat.7 _A min.*	typ.	Cat.7 _A min.*	typ.	Cat.7 _A min.*	typ.	Cat.7 _A min.*	typ.	Cat.7 _A min.*	typ.	Cat.7 _A min.*	typ.	Cat.7 _A min.*
1	1,7	2,1	105	78	102	75	104	75,9	101	72,9	105	78	102	75	27,1	20
10	4,5	5,8	105	78	102	75	101	72,2	98	69,2	108	75,3	105	72,3	35,2	25
100	15,4	18,5	105	75,4	102	72,4	90	56,9	87	53,9	93	55,3	90	52,3	38,9	20,1
200	22,9	26,5	105	70,9	102	67,9	83	44,4	80	41,4	85	49,3	82	46,3	36,6	18
250	26	29,7	105	69,4	102	66,4	79	39,7	76	36,7	82	47,3	79	44,3	35,3	17,3
500	35,9	42,8	100	64,9	97	61,9	64	22,2	61	19,2	70	41,3	67	38,3	29,4	17,3
600	40,4	47,1	95	63,7	92	60,7	55	16,6	52	13,6	63	39,7	60	36,7	26,6	17,3
700	44,6	51,1	95	62,7	92	59,7	50	11,6	47	8,6	60	38,4	57	35,4	25,8	16,6
800	47,7	54,9	93	61,9	90	58,9	45	6,9	42	3,9	57	37,2	54	34,2	25	16,1
900	51,6	58,5	90	61,1	87	58,1	38	2,6	35	-4	53	36,2	50	33,2	23,6	15,5
1000	54,8	61,9	88	60,4	85	57,4	33	-1,5	30	-4,5	48	35,3	45	32,3	22,3	15,1
1100	56,9	-	87	-	84	-	30	-	27	-	44	-	41	-	21,4	-
1300	61,4	-	80	-	77	-	21	-	18	-	39	-	36	-	18,3	-

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

Standards, certificates and approvals

Conformity

to CPR (EU/305/2011)

acc. to LVD (2014/35/EU)

Quality seal with production control

GHMT PVP

Link Performance

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

Part number	Drum packing	Weight	copper weight	Outer Ø approx.	Cable dimensions (W x H)	Colour
LKD7KS7B0020050	500 m	161 kg/km	90 kg/km	8.4 mm	17.5 x 8.5	Yellow green