

MegaLine® G12-150 S/F B2ca

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

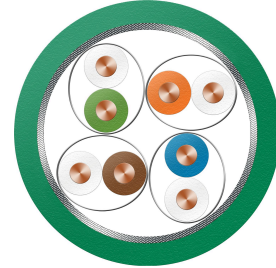
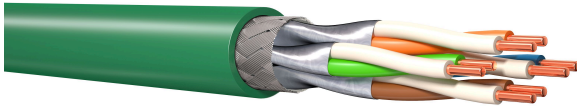
 Category 7_A **S₅ P₅ A₅ C₅ E₅**


Illustration similar

Construction

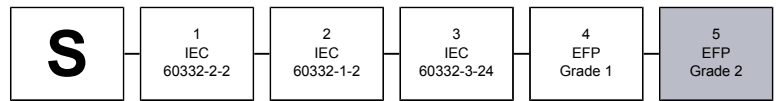
Conductor	bare copper wire, 0.64 mm	Twisting	PiMF to cable core
Insulation	cellular-PE, core-Ø: nominal value 1.6 mm	Overall screen	tinned copper wire braid
Colour code	WH/BU, WH/OG, WH/GN, WH/BN	Outer sheath	Halogen free flame retardant compound (LSOH)
Element	cores to pair	Colour	Yellow green
Pair shielding	aluminium-bonded polyester tape		

Cable marking

KERPEN DATACOM Made in Germany MegaLine G12-150 S/F 4P H Cat.7A 25G 4PPoE B2ca s1a d0 a1 DoP: CDESK0000010 \$BA-Nr.\$ \$m-sign.\$

Fire Behaviour

Fire class / DoP	B2ca -s1a,d1,a1 / CDESK0000010
Fire performance	EN 50575 / EN 50399
Flame retardancy	IEC 60332-3-24
Halogen-free	IEC 60754-1/2
Acidity	IEC 60754-2
Smoke density	IEC 61034-2
Fire load (approx.)	0.65 MJ/m



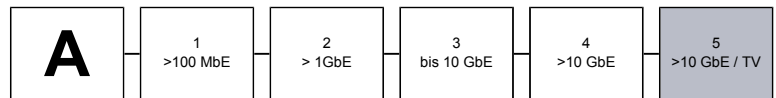
Security (fire behaviour)

Performance

 better than Category 7 (8) acc. to EN 50288 and IEC 61156
 excellent NEXT, niedrigste attenuation, exzellente screen
 properties (pair- and overall screen), low Skew
 Transmission bandwidth (typ.) 1500 MHz


Performance (class, bandwidth)

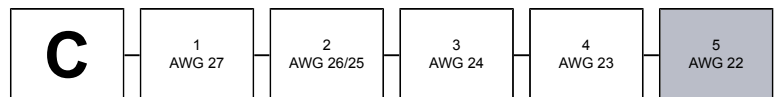
Applications

 Installation cable for generic cabling systems acc. to ISO/
 IEC 11801 and EN 50173 (2nd edition) and for residential
 cabling acc. to ISO/IEC 15018 and EN 50173-4. Ideal for all
 applications of class D up to FA Multimedia (TV, Video, Data,
 Voice) >10 GbE acc. to IEEE 802.3 an, Cable sharing, VoIP,
 PoE/PoE+


Application (Ethernet, TV)

Mechanical characteristics (cable)

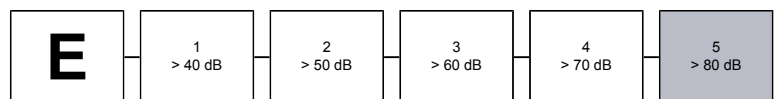
Bending radius (static) (min.)	4x outer-Ø
Bending radius (dynamic) (min.)	8x outer-Ø
Max. strain relief	130 N
Crush resistance (long term)	1000 N/100mm
Impact strength (quantity of impacts)	10



Construction (conductor size, tensile strength)

Electromagnetic behaviour

Coupling resistance @ 10 MHz (nom.)	2 mΩ/m
Screen attenuation (nom.)	80 dB
Coupling attenuation (nom.)	90 dB
Segregation class according to EN 50174-2	d



EMC (coupling attenuation)

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Electrical properties at 20°C

DC resistance (max.)	57.1 Ω/km
Insulation resistance (min.)	5 GΩ x km
Operating capacity (approx.)	42 pF/m
Capacitive coupling (e) (approx.)	1000 pF/km
Signal velocity (approx.)	0.77 x c
Phase delay	420 ns/100m
Skew @ 100 MHz (approx.)	3 ns/100m
Characteristic impedance @ 100 MHz	100 +/- 5 Ω
Test voltage	1000 V
Operating voltage (max.)	125 V

Thermal characteristics (cable)

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

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 _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	1,6	2,1	110	78	107	75	108	75,9	105	72,9	109	78	106	75	26,1	-
10	4,2	5,8	110	78	107	75	106	72,2	103	69,2	109	78	106	75	32,3	25,0
100	14,4	18,5	110	75	107	72	96	56,9	93	53,9	93	65	90	62	36,2	20,1
200	21,5	26,5	110	71	107	68	88	44,4	85	41,4	86	59	83	56	35,5	18,0
250	24,5	29,7	105	69	102	66	81	39,7	78	36,7	83	57	80	54	34,8	17,3
500	34,0	42,8	105	65	102	62	71	22,1	68	19,1	70	51	67	48	31,8	17,3
600	37,7	47,1	100	64	97	61	62	16,6	59	13,6	64	50	61	47	28,5	17,3
800	44,5	54,9	95	62	92	59	50	7,0	47	4,0	58	47	55	44	25,3	16,1
900	48,1	58,5	95	61	92	58	47	2,6	44	-0,4	54	46	51	43	23,8	15,5
1000	49,0	61,9	92	60	89	57	43	-1,5	40	-4,5	49	45	46	42	22,2	15,1
1200	54,9	68,4	88	59	85	56	34	-9,2	31	-12,2	40	44	37	41	20,2	14,3
1300	57,0	-	81	-	78	-	24	-	21	-	35	-	32	-	18,3	-
1400	58,1	-	74	-	71	-	16	-	13	-	30	-	27	-	16,3	-
1500	62,0	-	73	-	70	-	11	-	8	-	25	-	22	-	12,3	-

* 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

Inspection certificate

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

Part number	Weight	Copper weight	Outer Ø approx.	Colour
LKD7KS8B0010000	0 kg/km	48 kg/km	8.6 mm	Yellow green

Packaging

1000 m cable drum

500 m cable drum