

MegaLine® G20 S/F Dca KS-02YSCH 4 x 2 x AWG 26/7 PIMF

Category 8.2 S₂ P₅ A₅ C₂ E₅

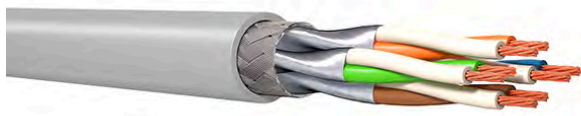


Illustration similar

Construction

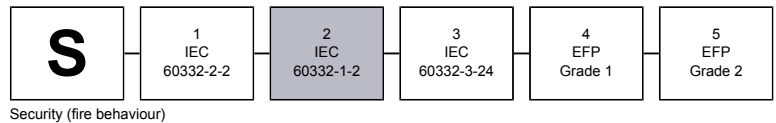
Conductor	bare copper wire, AWG26/7	Twisting	4 pairs
Insulation	cellular-PE, core-Ø: max. 1.05 mm	Overall screen	tinned copper wire braid
Colour code	WH/BU, WH/OG, WH/GN, WH/BN	Outer sheath	Halogen free flame retardant compound (LSOH)
Element	cores to pair	Colour	Light grey
Pair shielding	aluminium-bonded polyester tape		

Cable marking

KERPEN DATACOM Made in Germany MegaLine G20 S/F flex 4P LSOH Cat.8 2000MHz Dca DoP: CDESK000023 \$BA-Nr.\$ \$m-sign.\$

Fire Behaviour

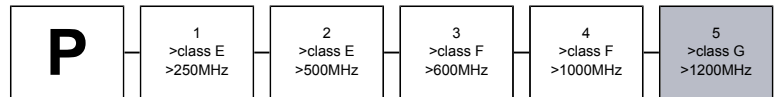
Fire class / DoP	Dca -s2,d1,a1 / CDESK0000023
Fire performance	EN 50575 / EN 50399
Flame retardancy	acc. to IEC 60332-1-2
Halogen-free	IEC 60754-1/2
Acidity	IEC 60754-2
Smoke density	IEC 61034-2
Fire load (approx.)	0.38 MJ/m



Security (fire behaviour)

Performance

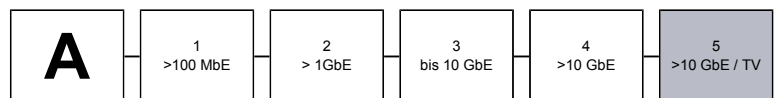
better than Category 8.2 acc. to draft IEC 61156-9, excellent NEXT, low attenuation, excellent screen properties (pair- and overall screen), low Skew
Bandwidth (max.) 2000 MHz



Performance (class, bandwidth)

Applications

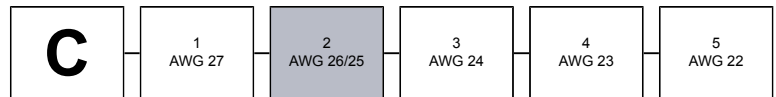
Connecting cable and patch cord for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (3rd edition) and for data centre cabling acc. to ISO/IEC 24764 and EN 50173-5 as well TR 11801-99-1. Ideal for all applications of class D up to F_A and Class II, Multimedia (TV, Video, Data, Voice) >40 GbE acc. to IEEE 802.3 bq (draft), Cable sharing, VoIP, PoE/PoE +4PPoE.



Application (Ethernet, TV)

Mechanical characteristics (cable)

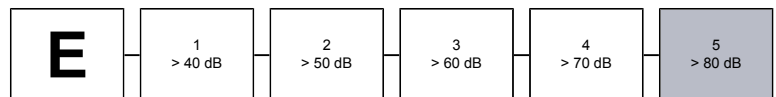
Bending radius (static) (min.)	5x outer-Ø
Max. strain relief	60 N
Crush resistance (long term)	1000 N/100mm
Impact strength (quantity of impacts)	10



Construction (conductor size, tensile strength)

Electromagnetic behaviour

Coupling resistance @ 10 MHz (nom.)	5 mΩ/m
Screen attenuation (nom.)	60 dB
Coupling attenuation (nom.)	85 dB
Segregation class according to EN 50174-2	d



EMC (coupling attenuation)

MegaLine[®] G20 S/F Dca

KS-02YSCH 4 x 2 x AWG 26/7 PIMF

Category 8.2 S₂ P₅ A₅ C₂ E₅

Electrical properties at 20°C

DC resistance (max.)	145 Ω/km
Insulation resistance (min.)	5 GΩ x km
Operating capacity (approx.)	43 pF/m
Signal velocity (approx.)	0.78 x c
Phase delay	430 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

Conform to RoHS and REACH

Frequenz MHz	Attenuation dB/50m		NEXT dB		PS-NEXT dB		ACR dB@50m		PS-ACR dB@50m		EL-FEXT dB@50m		PS-ELFEXT dB@50m		RL dB	
	typ.	Cat.8.2 max.*	typ.	Cat.8.2 min.*	typ.	Cat.8.2 min.*	typ.	Cat.8.2 min.*	typ.	Cat.8.2 min.*	typ.	Cat.8.2 min.*	typ.	Cat.8.2 min.*	typ.	Cat.8.2 min.*
10	3,7	4,4	100	78	97	75	96,6	73,6	93,3	70,6	100	78	97	75	30	25
100	13	13,9	100	75,4	97	72,4	87	61,5	84	58,5	90	60,6	87	57,6	36	20,1
250	20,7	22,3	100	69,4	97	66,4	79,3	47,1	76,3	44,1	81	52,5	78	49,5	33	19,4
500	29,9	32,1	95	64,9	92	61,9	65,1	32,8	62,1	29,8	72	46,6	69	43,6	30	17,3
600	32,6	35,3	95	63,7	92	60,7	62,4	28,4	59,4	25,4	68	45	65	42	26	17,3
1000	42,3	46,4	90	60,4	87	57,4	47,7	14	44,7	11	50	40,6	47	37,6	18	15,2
1200	46,4	51,3	84	59,2	81	56,2	37,6	7,9	34,6	4,9	42	39	39	36	16	14,7
1500	52,4	57,9	83	57,8	80	54,8	30,6	-1	27,6	-3,1	39	37,1	36	34,1	15	14
1600	54,3	60	72	57,3	69	54,3	17,7	-2,7	14,7	-5,7	38	36,5	35	33,5	15	13,8
1700	56,4	62	69	56,9	66	53,9	12,6	-5,1	9,6	-8,1	37	36	34	33	14	13,6
1800	58,5	64	68	56,6	65	53,6	9,5	-7,4	6,5	-10,4	36,5	35,5	33,5	32,5	14	13,4
1900	60,3	66	67	56,2	64	53,2	6,7	-9,8	3,7	-12,8	36	35	33	32	14	13,3
2000	62,6	67,9	66	55,9	63	52,9	3,4	-12	,4	-15	35	34,6	32	31,6	13,5	13,1

* IEC 61156-10 (Draft 2015)

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	Weight	Copper weight	Outer Ø approx.	Colour
LKD7KS800130000	43 kg/km	20 kg/km	6 mm	Light grey

Packaging

1000 m cable drum

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