

MegaLine[®] G20 S/F B2ca

KS-02YSCH 4 x 2 x 0,62 MM/1 PIMF

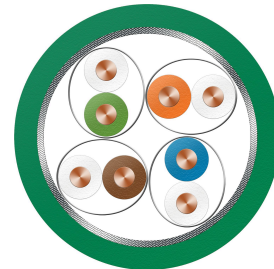
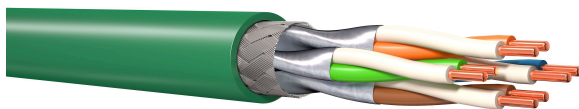
 Category 8.2 **S₅ P₅ A₅ C₅ E₅**


Illustration similar

Construction

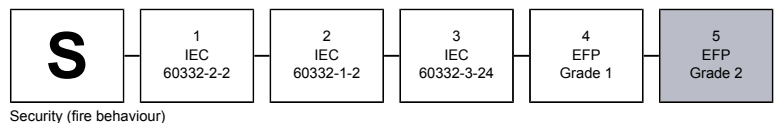
Conductor	bare copper wire, 0.62 mm	Twisting	4 pairs
Insulation	cellular-PE, core-Ø: nominal value 1.6 mm	Overall screen	tinned copper wire braid
Colour code	WH/BU, WH/OG, WH/GN, WH/BN	Outer sheath	Halogen free flame retardant compound (LSOH)
Element	cores to pair	Colour	Yellow green
Pair shielding	aluminium-bonded polyester tape		

Cable marking

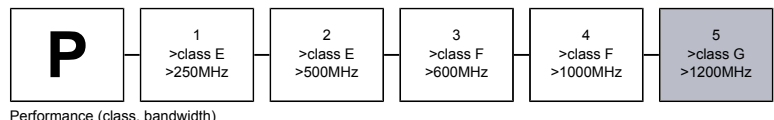
KERPEN DATACOM Made in Germany MegaLine G20 S/F 4P H Cat.8 25/40G 4PPoE B2ca s1a d1 a1 DoP: CDESK0000010 \$BA-Nr.\$ \$m-sign.\$

Fire Behaviour

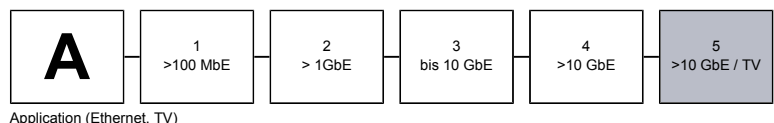
Fire class / DoP	B2ca -s1a,d1,a1 / CDESK0000010
Fire performance	EN 50575 / EN 50399
Flame retardancy	acc. to IEC 60332-3-24
Halogen-free	IEC 60754-1/2
Acidity	IEC 60754-2
Smoke density	IEC 61034-2
Fire load (approx.)	0.74 MJ/m



Performance

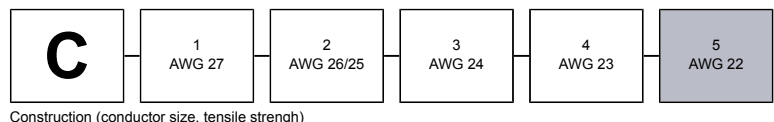
 better than Category 8.2 acc. to draft IEC 61156-9, excellent NEXT, low attenuation, excellent screen properties (pair- and overall screen), low Skew
 Transmission bandwidth (typ.) 2000 MHz


Applications

 Installation cable 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.


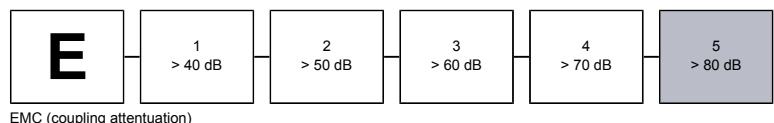
Mechanical characteristics (cable)

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



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



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 Category 8.2 **S₅ P₅ A₅ C₅ E₅**
Electrical properties at 20°C

DC resistance (max.)	68 Ω/km
Insulation resistance (min.)	5 GΩ x km
Operating capacity (approx.)	43 pF/m
Capacitive coupling (e) (approx.)	1000 pF/km
Signal velocity (approx.)	0.76 x c
Phase delay	440 ns/100m
Skew @ 100 MHz (approx.)	12 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

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.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	4,8	5,8	100	78	97	75	97,6	72,2	94,6	69,2	90	78	87	75	32,3	25,0
100	17,2	18,5	100	75	97	72	91,4	56,9	88,4	53,9	90	61	87	58	36,2	22,2
250	27,4	29,7	100	69	97	66	86,3	39,7	83,3	36,7	84	53	81	50	34,8	19,4
500	37,8	42,8	100	65	97	62	81,1	22,1	78,1	19,1	79	47	76	44	31,8	17,3
600	44,0	47,1	100	64	97	61	78	16,6	75	13,6	78	45	75	42	28,5	16,8
800	51,2	54,9	95	62	92	59	69,4	7,0	66,4	4,0	71	43	68	40	25,3	15,9
1000	57,8	61,9	92	60	89	57	63,1	-1,5	60,1	-4,5	62	51	59	38	22,2	15,2
1200	63,2	68,4	88	59	85	56	56,4	-9,2	53,4	-12,2	60	39	57	36	20,2	14,7
1500	70,4	77,2	77	58	74	55	40,8	-19,4	37,8	-22,4	53	37	50	34	19,2	14,0
1600	73,2	80,0	75	57	72	54	37,8	-22,7	34,8	-25,7	50	37	47	34	18,4	13,8
1700	76,2	82,7	75	57	72	54	36,9	-25,8	33,9	-28,8	45	36	42	33	17,1	13,6
1800	79,0	85,4	75	57	72	54	35,5	-28,8	32,5	-31,8	42	36	39	33	16,3	13,4
1900	82,2	88,0	75	56	71	53	33,9	-31,8	30,9	-34,8	40	35	37	32	15,6	13,3
2000	87,0	90,5	75	56	72	53	31,5	-34,6	28,5	-37,6	40	35	37	32	15,1	13,1

* EN 50288-12-1 (2017) / IEC 61156-9 (2016)

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
LKD7KS8B0200000	82 kg/km	44 kg/km	8.4 mm	Yellow green

Packaging

 1000 m cable drum
 500 m cable drum
 250 m carton
 100 m packed in rings