

MegaLine[®] D1-20 S/U SUPERFLEX

KS-6Y3GC11Y 4x2x0.10 mm/ AWG 26/19

Category 5



Illustration similar

Construction

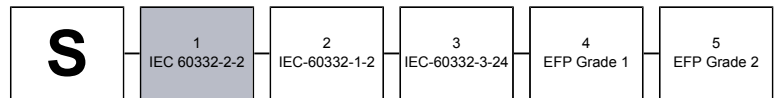
Conductor:	bare copper wire, AWG 26/19	Bound:	fleece foil
Insulation:	FEP, core-Ø: max. 1.0 mm	Overall screen:	tinned copper braid, optical cover ca. 90%
Colour code:	gr/or, bl/rt, gn/ge, bl/br	Inner sheath:	EPDM
Element:	cores to pair	Outer sheath:	PUR
Twisting:	4 pairs to cable core	Colour:	Colza yellow

Cable marking:

KERPEN DATACOM GmbH Made in Germany MegaLine D1-20 S/U superflex 4P 11Y \$BA-Nr.\$ \$m-sign.\$

Fire Behaviour

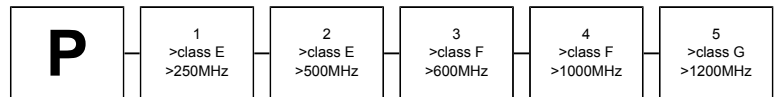
Fire class / DoP	/
Flame retardancy	acc. to IEC 60332-2-2
Fire load (approx.)	0.7 MJ/m



Security (fire behaviour)

Performance

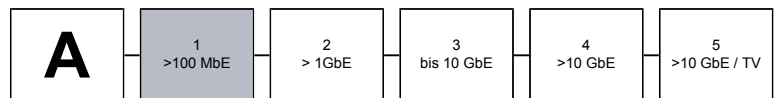
better than category 5 acc. to EN 50288 and IEC 61156
excellent screen properties
Transmission bandwidth (typ.) 100 MHz



Performance (class, bandwidth)

Applications

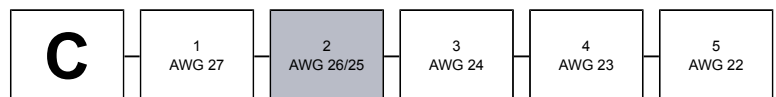
Connection and patch cables for use in generic cabling systems according to ISO/IEC 11801 and EN 50173 (3rd edition) as well as ISO/IEC 24702 and EN 50173-3. Best suited for all class D applications up to 1 GbE according to IEEE 802.3 ab, VolP, 4PPoE. Prefabricated with TPE Hytrel jacket for use in hybrid cable constructions, drag chain suitable (typ. 1 million cycles).



Application (Ethernet, TV)

Mechanical characteristics (cable)

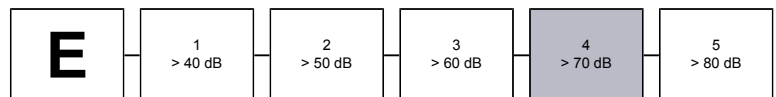
Bending radius (static) (min.)	5x outer-Ø
Tensile loading (max.)	60 N
Crush resistance (long term)	2000 N/100mm
Impact strength (quantity of impacts)	20



Construction (conductor size, tensile strength)

Electromagnetic behaviour

Coupling resistance @ 10 MHz (nom.)	25 mΩ/m
Screen attenuation (nom.)	55 dB
Coupling attenuation (nom.)	75 dB
Segregation class according EN 50174-2	c



EMC (coupling attenuation)

MegaLine[®] D1-20 S/U SUPERFLEX

KS-6Y3GC11Y 4x2x0.10 mm/ AWG 26/19

Category 5

DC resistance (max.)	130 Ω/km
Insulation resistance (min.)	5 GΩ x km
Operating capacity (approx.)	50 pF/m
Signal velocity (approx.)	0.68 x c
Phase delay	490
Skew @ 100 MHz (approx.)	15 ns/100m
Characteristic impedance @ 100 MHz	100 +/- 5 Ω
Test voltage	1000 V
Operating voltage (max.)	125 V

Thermal characteristics (cable)

Temperature (transport / storage)	-40 °C up to +85 °C
Temperature during installation	0 °C up to +50 °C
Temperature after installation	-40 °C up to +85 °C

Chemical characteristics

IEC 60811-2-1 with test-oil IRM 902 (acc. to ISO 1817) at +70°C; 4 h; pulling rate 50 mm/min relative change of the elongation at break and tensile strength max. +/- 40 %
Free of hazardous substances acc. to RoHS 2011/65/EU, Good resistance to oil, petrol, acid and leach

Frequenz MHz	Attenuation dB/10m		NEXT dB		PS-NEXT dB		ACR dB@10m		PS-ACR dB@10m		EL-FEXT dB@10m		PS-ELFEXT dB@10m		RL dB	
	typ.	Cat.5 max.*	typ.	Cat.5 min.*	typ.	Cat.5 min.*	typ.	Cat.5 min.*	typ.	Cat.5 min.*	typ.	Cat.5 min.*	typ.	Cat.5 min.*	typ.	Cat.5 min.*
1	0,22	0,32	80	65	77	62	80	65	77	62	80	64	77	61	27	-
4	0,56	0,6	67	56	64	53	67	56	64	53	69	52	66	49	26	23
10	1	1,05	63	50	60	47	62	49	59	47	61	44	65	58	30	25
16	1,35	1,45	61	47	58	44	60	46	57	44	56	40	53	37	30	25
20	1,5	1,6	59	46	56	43	58	44	55	43	53	38	50	35	30	25
31,25	1,95	2	57	43	54	40	55	41	52	40	48	34	45	31	30	23,6
62,5	2,95	3	52	38	49	35	50	36	47	35	43	28	40	25	28	21,5
100	3,95	4	45	35	42	32	42	32	39	32	38	24	35	21	26	20,1

* on the basis of EN 50288-2-2(2004)/IEC 61156-6(2002)

Standards, certificates and approvals

Quality seal with production control:	-
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
Compliant with LVD (2014/35/EU)	\$CE_Logo\$

Part number	Weight	copper weight:	Weight	Outer Ø approx.	Colour
LKD7KS500510000	58 kg/km	29 kg/km	58 kg/km	6.8 mm	Colza yellow