

MegaLine[®] D1-20 S/U SUPERFLEX none shielded

KS-6Y3GC11Y 4 x 2 x AWG 26/19

Category 5e **S₁ P₀ A₁ C₂ E₄**

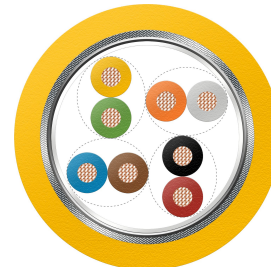


Illustration similar

Construction

Conductor bare copper wire, AWG 26/19
 Insulation FEP, core-Ø: max. 1.0 mm
 Colour code gr/or, bl/rt, gn/ge, bl/br
 Element cores to pair
 Twisting 4 pairs to cable core

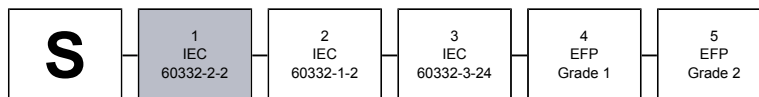
Bound fleece foil
 Inner sheath EPDM
 Outer sheath PUR
 Colour Colza yellow

Cable marking

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

Fire Behaviour

Fire class / DoP none /
 Flame retardancy acc. to IEC 60332-2-2
 Fire load (approx.) 0.7 MJ/m



Security (fire behaviour)

Performance

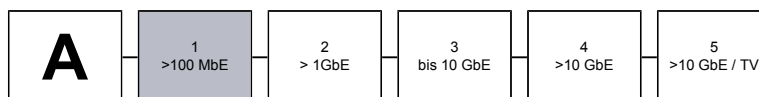
better than category 5 acc. to EN 50288 and IEC 61156
 exzellent screen properties
 Transmission bandwidth (typ.) 100 MHz



Performance (class, bandwidth)

Applications

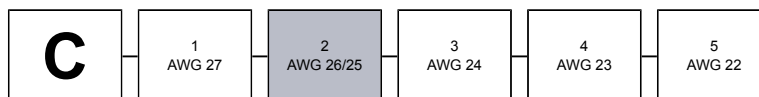
Connection and patch cables for use in generic cabling systems according to ISO/IEC 11801 and EN 50173 (3rd edition) as well as ISO/IEC 24702 and EN 50173-3. Best suited for all class D applications up to 1 GbE according to IEEE 802.3 ab, VolP, 4PPoE. Prefabricated with TPE Hytrel jacket for use in hybrid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



Application (Ethernet, TV)

Mechanical characteristics (cable)

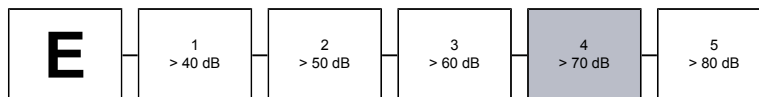
Bending radius (static) (min.) 5x outer-Ø
 Max. strain relief 60 N
 Crush resistance (long term) 2000 N/100mm
 Impact strength (quantity of impacts) 20



Construction (conductor size, tensile strength)

Electromagnetic behaviour

Coupling resistance @ 10 MHz (nom.) 100 mΩ/m
 Screen attenuation (nom.) 55 dB
 Coupling attenuation (nom.) 75 dB
 Segregation class according to EN 50174-2 c



EMC (coupling attenuation)

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Electrical properties at 20°C

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 ns/100m
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

ICEA S-73-532 (4h, 60 °C, 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	2,2	3,2	80	65	77	62	80	61,8	77	58,8	80	64	77	61	27,0	-
4	5,6	6,0	67	56	64	53	67	50,0	64	47	69	52	66	49	26,0	23,0
10	10,0	9,5	63	50	60	47	62	40,5	59	37,5	61	44	65	41	30,0	25,0
16	13,5	12,1	61	47	58	44	60	34,9	57	31,9	56	40	53	37	30,0	25,0
20	15,0	13,6	59	46	56	43	58	32,4	55	29,4	53	38	50	35	30,0	25,0
31,25	19,5	17,1	57	43	54	40	55	25,9	52	22,9	48	34	45	31	30,0	23,6
62,5	29,5	24,8	52	38	49	35	50	13,2	47	10,2	43	28	40	25	28,0	21,5
100	39,5	32,0	45	35	42	32	42	3,0	39	0	38	24	35	21	26,0	20,1

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

Standards, certificates and approvals

Conformity	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
LKD7KS500510100	56 kg/km	39 kg/km	6.7 mm	Colza yellow