

MegaLine[®] D1-20 SF/U FLEX

KS-2Y(ST+C)Y 4x2x AWG 26/7

Category 5



Illustration similar

Construction

Conductor bare copper wire, AWG26/7
Insulation PE, core-Ø: max. 1.0 mm
Colour code wh/bl, bk/gn, or/rd, ye/bn
Element cores to pair
Twisting 4 pairs to cable core

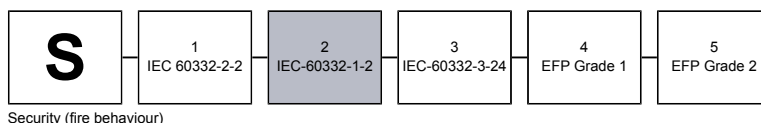
Overall screen aluminum-bonded polyester tape and tinned copper wire braid
Outer sheath PVC
Colour Flame red

Cable marking

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

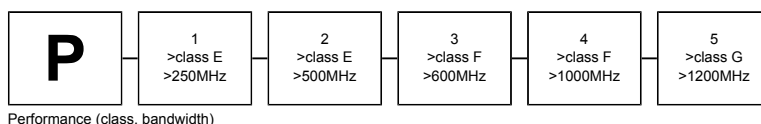
Fire Behaviour

Flame retardancy IEC 60332-1-2
Fire load (approx.) 0.4 MJ/m



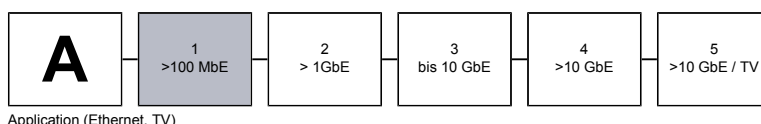
Performance

better than category 5 acc. to EN 50288 and IEC 61156
excellent screen properties
Transmission bandwidth (typ.) 200 MHz



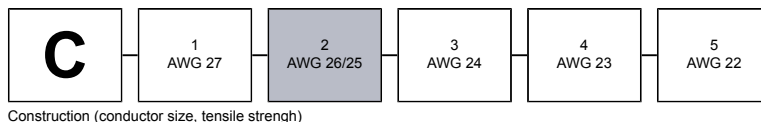
Applications

Connecting cable and patch cord for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (3rd edition). Ideal for all applications of class D up to 1 GbE acc. to IEEE 802.3ab, VoIP, PoE/PoE+/4PPoE.



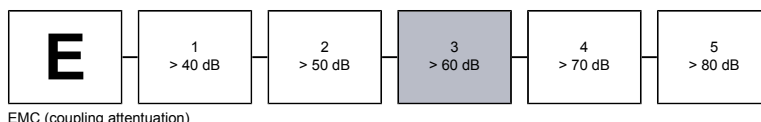
Mechanical characteristics (cable)

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



Electromagnetic behaviour

Coupling resistance @ 10 MHz (nom.) 10 mΩ/m
Screen attenuation (nom.) 50 dB
Coupling attenuation (nom.) 65 dB
Segregation class according EN 50174-2 c



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DC resistance (max.)	145 Ω/km
Insulation resistance (min.)	5 GΩ x km
Operating capacity (approx.)	51 pF/m
Signal velocity (approx.)	0.65 x c
Phase delay	510 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)	-20 °C up to +70 °C
Temperature during installation	0 °C up to +50 °C
Temperature after installation	-20 °C up to +60 °C

Chemical characteristics

Free of hazardous substances acc. to RoHS 2011/65/EU

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	0,24	0,32	76	65	73	62	76	65	73	62	91	64	88	61	24,9	-
4	0,44	0,6	71	56	68	53	70	56	67	53	76	52	73	49	29,8	23
10	0,8	0,95	64	50	61	47	63	49	60	47	68	44	65	41	38,2	25
16	1,01	1,21	60	47	57	44	59	46	56	44	64	40	61	37	39,3	25
31,25	1,44	1,71	56	43	53	40	54	41	51	40	58	34	55	31	36,7	23,6
62,5	2,07	2,48	52	38	49	35	50	36	47	35	52	28	49	25	35	21,5
100	2,66	3,2	48	35	45	32	45	32	42	32	47	24	44	21	29,9	20,1
155	3,26	-	45	-	42	-	42	-	39	-	42	-	39	-	26,2	-
200	3,86	-	42	-	39	-	39	-	36	-	37	-	34	-	23,5	-

* EN 50288-2-2(2014)/IEC 61156-6(2020)

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	Outer Ø approx.	Colour
LKD7KS501010000	33 kg/km	21 kg/km	5.5 mm	Flame red

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