

# MegaLine<sup>®</sup> E5-60 U/F Dca

## KS-02YSH 2x(4x2x0.55 mm/ AWG 23/1) PIMF

Category 6<sub>A</sub>

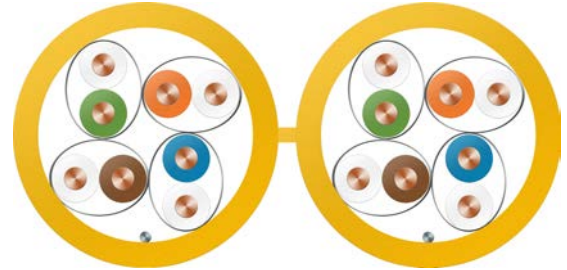
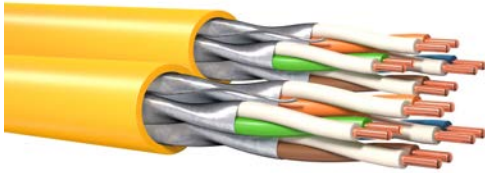


Illustration similar

### Construction

Conductor: bare copper wire, AWG 23/1  
 Insulation: cellular-PE, core-Ø: nominal value 1.4 mm  
 Colour code: wh/bl, wh/or, wh/gn, wh/br  
 Element: cores to pair  
 Pair shielding: aluminium-bonded polyester tape

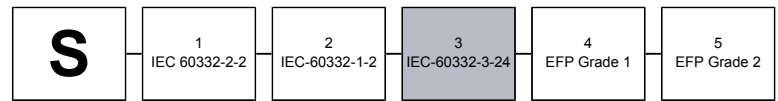
Twisting: 4 pairs to cable core with tinned copper wire AWG 24/1  
 Outer sheath: halogen free, flame retardant compound  
 Colour: Colza yellow

### Cable marking:

KERPEN DATACOM GmbH Made in Germany MegaLine E5-60 U/F 2x4P H 4PPoE Dca s2 d2 a1 DoP: CDESK0000002 \$BA-Nr.\$ \$m-sign. \$

### Fire Behaviour

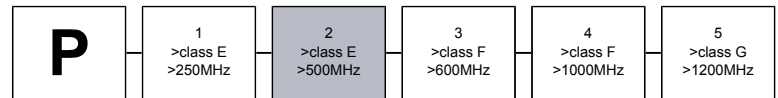
Fire class / DoP: Dca s2 d2 a1 / CDESK0000002  
 Fire performance: EN 50575 / EN 50399  
 Flame retardancy: acc. to IEC 60332-3-24  
 Halogen free: IEC 60754-1/2  
 Acidity: IEC 60754-2  
 Smoke density: IEC 61034-1/2  
 Fire load (approx.): 1.2 MJ/m



Security (fire behaviour)

### Performance

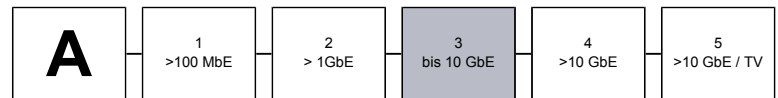
better than Category 6A acc. to EN 50288 and IEC 61156  
 excellent NEXT, well screen properties (pair- and overall screen), low Skew  
 Transmission bandwidth (typ.) 600 MHz



Performance (class, bandwidth)

### Applications

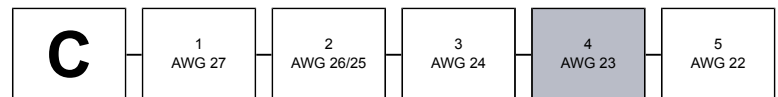
Installation cable for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (2nd edition). Ideal for all applications of class D up to EA up to 10 GbE acc. to IEEE 802.3 an, Cable sharing, VoIP, PoE/PoE+



Application (Ethernet, TV)

### Mechanical characteristics (cable)

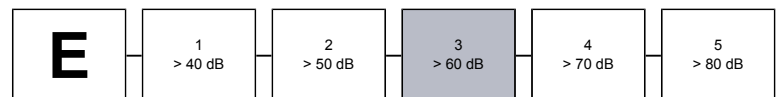
Bending radius (static) (min.) 4x outer-Ø  
 Bending radius (dynamic) (min.) 8x outer-Ø  
 Tensile loading (max.) 110 N  
 Crush resistance (long term) 1000 N/100mm  
 Impact strength (quantity of impacts) 10



Construction (conductor size, tensile strength)

### Electromagnetic behaviour

Coupling resistance @ 10 MHz (nom.) 50 mΩ/m  
 Screen attenuation (nom.) 55 dB  
 Coupling attenuation (nom.) 65 dB  
 Segregation class according EN 50174-2 c



EMC (coupling attenuation)

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DC resistance (max.)	82 Ω/km	<b>Thermal characteristics (cable)</b>	
Insulation resistance (min.)	5 GΩ x km	Temperature (transport / storage)	-20 °C up to +60 °C
Operating capacity (approx.)	42 pF/m	Temperature during installation	0 °C up to +50 °C
Capacitive coupling (e) (approx.)	1100 pF/km	Temperature after installation	-20 °C up to +60 °C
Signal velocity (approx.)	0.8 x c	<b>Chemical characteristics</b>	
Phase delay	420 ns/100m	Free of hazardous substances acc. to RoHS 2011/65/EU	
Skew @ 100 MHz (approx.)	7 ns/100m		
Characteristic impedance @ 100 MHz	100 +/- 5 Ω		
Test voltage	1000 V		
Operating voltage (max.)	125 V		

Frequenz MHz	Attenuation dB/100m		NEXT dB		PS-NEXT dB		ACR dB@100m		PS-ACR dB@100m		ACR-F dB@100m		PSACR-F dB@100m		RL dB	
	typ.	Cat.6 <sub>A</sub> max.*	typ.	Cat.6 <sub>A</sub> min.*	typ.	Cat.6 <sub>A</sub> min.*	typ.	Cat.6 <sub>A</sub> min.*	typ.	Cat.6 <sub>A</sub> min.*	typ.	Cat.6 <sub>A</sub> min.*	typ.	Cat.6 <sub>A</sub> min.*	typ.	Cat.6 <sub>A</sub> min.*
1	1,9	2,1	95	75,3	92	72,3	93	73,2	90	70,2	91	68	88	65	25,1	-
10	5,2	5,9	90	60,3	87	57,3	85	54,4	82	51,4	96	48	93	45	35,2	25
100	17,7	19,1	75	45,3	72	42,3	57	26,2	54	23,2	90	28	87	25	37,2	20,1
200	26,4	27,6	68	40,8	65	37,8	42	13,2	39	10,2	78	22	75	19	31,1	18
250	29,9	31,1	66	39,3	63	36,3	36	8,3	33	5,3	75	20	72	17	29,5	17,3
300	31,9	34,3	65	38,1	62	35,1	33	3,9	30	,9	72	18,5	69	15,5	28,3	17,3
450	38,9	42,7	63	35,5	60	32,5	24	-7,2	21	-10,2	69	14,9	66	11,9	26,7	17,3
500	41,2	45,3	61	34,8	58	31,8	20	-10,4	17	-13,4	66	14	63	11	26,3	17,3
600	46,2	-	57	-	54	-	11	-	8	-	60	-	57	-	25,8	-

\* EN 50288-10-1(2013)/EN 50288-5-1(2004)/IEC 61156-5(2009)

### Standards, certificates and approvals

Compliance	to CPR (EU/305/2011)
Link Performance:	KERPEN MegaLine <sup>®</sup> systems and further commercial plug-in connector
Inspection certificate:	acc. to DIN 55350-18-4.2.1 bzw. EN 10204
Conform to CPR (EU/305/2011)	\$CE_Logo\$
Compliant with LVD (2014/35/EU)	\$CE_Logo\$

Part number	Weight	copper weight:	Weight	Cable dimensions (W x H)	Colour
LKD7KS600360000	112 kg/km	24 kg/km	112 kg/km	15 x 7.4	Colza yellow