

MegaLine[®] E5-70 F/F Dca

KS-02YS(ST)H 2x (4 x 2 x AWG 23/1 PIMF)

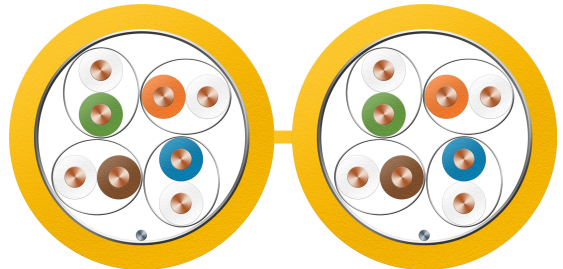
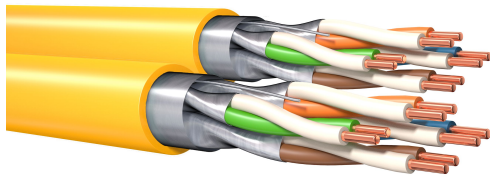
 Category 6_A **S₃ P₂ A₃ C₄ E₃**


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

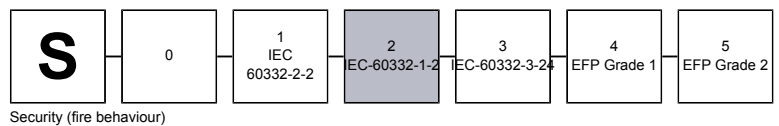
Overall screen	aluminium-bonded polyester tape, metal side inside, with underlayered tinned copper drain wire
Outer sheath	halogen-free compound, shape 8 siamese, 2 base elements in parallel
Colour	Colza yellow

Cable marking

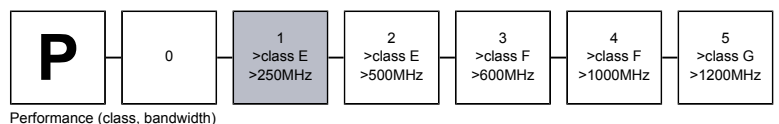
 KERPEN DATACOM Made in Germany MegaLine E5-70 F/F 2x4P H Cat.6A 4PPoE Dca s2 d1 a1 DoP: CDESK0000004 \$BA-Nr.\$ \$m-sign.
 \$

Fire Behaviour

Fire class / DoP	Dca -s2,d1,a1 / CDESK0000004
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

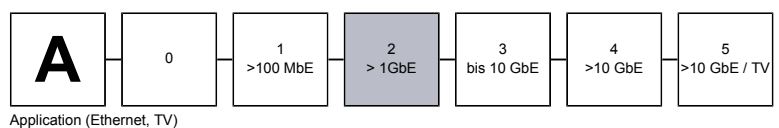


Performance

 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.) 700 MHz


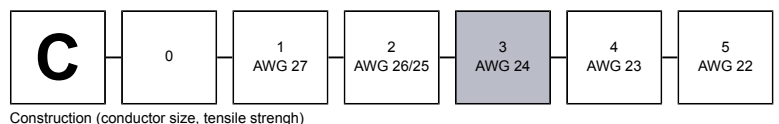
Applications

Installation cable for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (3rd 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+/4PPoE.



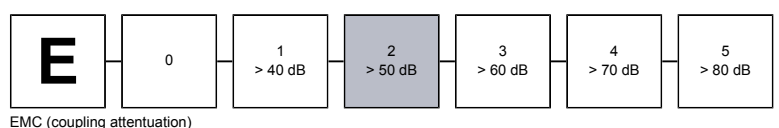
Mechanical characteristics (cable)

Bending radius (static) (min.)	4x outer-Ø
Bending radius (dynamic) (min.)	8x outer-Ø
Tensile loading (max.)	220 N
Crush resistance (long term)	1000 N/100mm
Impact strength (quantity of impacts)	10



Electromagnetic behaviour

Coupling resistance @ 10 MHz (nom.)	50 mΩ/m
Screen attenuation (nom.)	60 dB
Coupling attenuation (nom.)	70 dB
Segregation class according EN 50174-2	c



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Electrical properties at 20°C

DC resistance (max.)	82 Ω/km
Insulation resistance (min.)	5 GΩ x km
Operating capacity (approx.)	42 pF/m
Capacitive coupling (e) (approx.)	1100 pF/km
Signal velocity (approx.)	0.8 x c
Phase delay	417 ns/100m
Skew @ 100 MHz (approx.)	7 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

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

Frequenz 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.6 _A max.*	typ.	Cat.6 _A min.*	typ.	Cat.6 _A min.*	typ.	Cat.6 _A min.*	typ.	Cat.6 _A min.*	typ.	Cat.6 _A min.*	typ.	Cat.6 _A min.*	typ.	Cat.6 _A min.*
1	1,9	2,1	95	75,3	92	72,3	93	73,2	90	70,2	91	68,0	88	65,0	25,1	-
10	5,2	5,9	90	60,3	87	57,3	85	54,4	82	51,4	96	48,0	93	45,0	35,2	25,0
100	17,7	19,1	75	45,3	72	42,3	57	26,2	54	23,2	90	28,0	87	25,0	37,2	20,1
200	26,4	27,6	68	40,8	65	37,8	42	13,2	39	10,2	78	22,0	75	19,0	31,1	18,0
250	29,9	31,1	66	39,3	63	36,3	36	8,2	33	5,2	75	20,0	72	17,0	29,5	17,3
300	31,9	34,3	65	38,1	62	35,1	33	3,8	30	0,8	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	-10,5	17	-13,5	66	14,0	63	11,0	26,3	17,3
600	46,2	-	57	-	54	-	11	-	8	-	60	-	57	-	25,8	-
700	51,4	-	54	-	51	-	3	-	0	-	56	-	53	-	-	-

* EN 50288-10-1 (2013)/IEC 61156-5(2020)

Standards, certificates and approvals

Conformity	to CPR (EU/305/2011) acc. to LVD (2014/35/EU)
Link Performance	KERPEN MegaLine® systems and further commercial plug-in connector
Inspection certificate	acc. to DIN 55350-18-4.2.1 bzw. EN 10204

Part number	Drum packing	Weight	copper weight	Outer Ø approx.	Cable dimensions (W x H)	Colour
LKD7KS600230050	500 m	104 kg/km	47 kg/km	7.5 mm	15.2 x 7.5	Colza yellow