

MegaLine[®] F6-70 S/F flex HV KS-02YSCHV 4 x 2 x AWG 24/7 PIMF

Category 7 **S₃ P₃ A₄ C₃ E₅**



Illustration similar

Construction

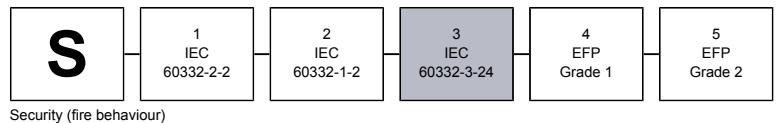
Conductor	bare copper wire, AWG24/7	Strain relief	aramidyarn / dielectric: 0,8 / 1,45 mm
Insulation	cellular-PE, core-Ø: nominal value 1.5 mm	Overall screen	tinned copper braid, optical cover ca. 65%
Colour code	WH/BU, WH/OG, WH/GN, WH/BN	Outer sheath	Halogen free, flame retardant compound (SHF1 acc. to IEC 60092-360), thickness 0,9mm
Element	cores to pair	Colour	Light grey
Pair shielding	aluminium-bonded polyester tape		
Twisting	4 pairs		

Cable marking

KERPEN DATACOM Made in Germany MegaLine Sea 724 flex 4P AWG 24/7 Heavy Duty *H* 125 V IEC 60332-3-22 \$YYYYY\$ \$BA-Nr.\$ \$m-sign.\$

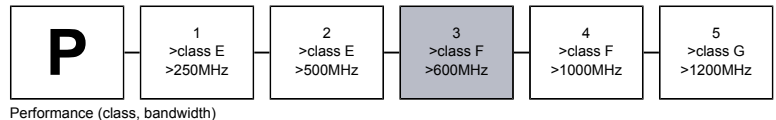
Fire Behaviour

Flame retardancy	IEC 60332-3-22 Cat. A, IEC 60332-3-24 Cat. C
Halogen-free	IEC 60754-1/2
Acidity	IEC 60754-2
Smoke density	IEC 61034-2
Fire load (approx.)	0.54 MJ/m



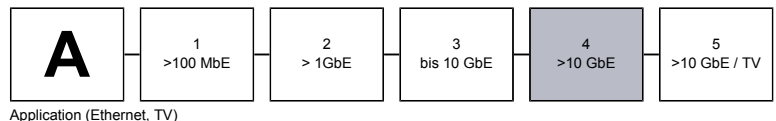
Performance

better than Category 7 acc. to EN 50288 and IEC 61156
excellent NEXT, low attenuation, exzellente screen properties (pair- and overall screen), low Skew
Bandwidth (max.) 700 MHz



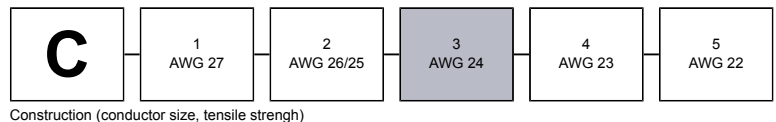
Applications

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 F Multimedia (Video, Data, Voice) >10 GbE acc. to IEEE 802.3an, Cable sharing, VoIP, PoE/PoE+/4PPoE.



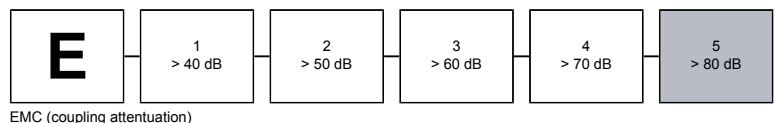
Mechanical characteristics (cable)

Bending radius (static) (min.)	5x outer-Ø
Max. strain relief	400 N
Crush resistance (long term)	1000 N/100mm
Impact strength (quantity of impacts)	10



Electromagnetic behaviour

Coupling resistance @ 10 MHz (nom.)	5 mΩ/m
Screen attenuation (nom.)	60 dB
Coupling attenuation (nom.)	90 dB
Segregation class according to EN 50174-2	d



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Electrical properties at 20°C

DC resistance (max.)	84 Ω/km
Insulation resistance (min.)	5 GΩ x km
Operating capacity (approx.)	42.5 pF/m
Signal velocity (approx.)	0.78 x c
Phase delay	430 ns/100m
Skew @ 100 MHz (approx.)	4 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	-25 °C up to +70 °C

Chemical characteristics

ICEA S-73-532 (4h, 60 °C, relative change of the elongation at break and tensile strength max. +/- 40 %)
Conform to RoHS and REACH

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.7 max.*	typ.	Cat.7 min.*	typ.	Cat.7 min.*	typ.	Cat.7 min.*	typ.	Cat.7 min.*	typ.	Cat.7 min.*	typ.	Cat.7 min.*	typ.	Cat.7 min.*
1	2,3	2,9	90	80	87	77	90	77,1	87	74,1	90	80	87	77	23,3	-
10	6,3	8,5	90	80	87	77	89	71,5	86	68,5	90	74	87	71	30,0	25,0
16	7,9	10,8	90	80	87	77	89	69,2	86	66,2	90	70	87	67	30,0	25,0
31,25	9,1	15,2	90	80	87	77	89	64,8	86	61,8	85	64	82	61	30,0	23,6
100	20,7	27,8	81	72	78	69	79	44,2	76	41,2	64	54	61	51	24,0	18,0
200	30,7	40,1	76	68	73	65	73	27,9	70	24,9	57	48	54	45	24,0	17,3
250	34,3	45,3	74	66	71	63	71	20,7	68	17,7	53	46	50	43	24,0	17,3
500	47,7	66,2	70	62	67	59	65	-4,2	62	-7,2	45	40	42	37	21,0	17,3
600	52,3	73,3	68	61	65	58	63	-12,3	60	-15,3	42	38	39	35	21,0	17,3
700	56,5	-	65	-	62	-	59	-	56	-	39	-	36	-	19,0	-

* EN 50288-4-2(2014)/IEC 61156-6(2020)

Standards, certificates and approvals

Conformity	acc. to LVD (2014/35/EU)
Quality seal with production control	DNV_GL (Germanischer Lloyd)
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
LKD7KS016990000	77 kg/km	35.2 kg/km	8.3 mm	Light grey

Packaging

1000 m cable drum
500 m cable drum

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