

MegaLine® F6-70 S/F flex none PUR

KS-02YSC11Y 4 x 2 x AWG 24/7 PIMF

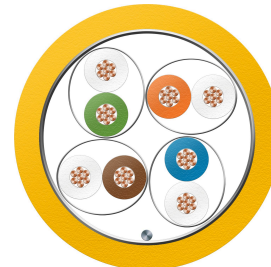
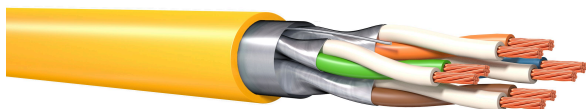
 Category 7 **S₂ P₃ A₄ C₃ E₅**


Illustration similar

Construction

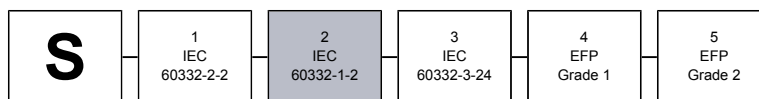
Conductor	bare copper wire, AWG24/7	Pair shielding	aluminium-bonded polyester tape
Insulation	cellular-PE, core-Ø: nominal value 1.55 mm	Twisting	4 pairs
Colour code	wh/bl, wh/or, wh/gn, wh/br	Outer sheath	PUR, flame retardant
Element	cores to pair	Colour	Colza yellow

Cable marking

KERPEN DATACOM Made in Germany MegaLine F6-70 S/F flex 4P 11Y \$BA-Nr.\$ \$m-sign.\$

Fire Behaviour

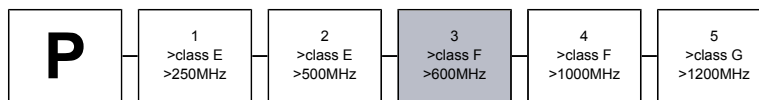
Fire class / DoP	none /
Flame retardancy	acc. to IEC 60332-1-2
Halogen-free	IEC 60754-1/2
Smoke density	IEC 61034-2
Fire load (approx.)	0.77 MJ/m



Security (fire behaviour)

Performance

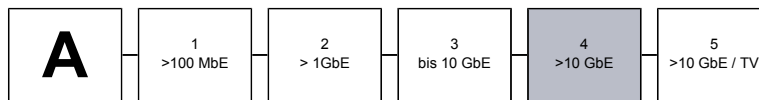
Transmission bandwidth (typ.)	700 MHz
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Performance (class, bandwidth)

Applications

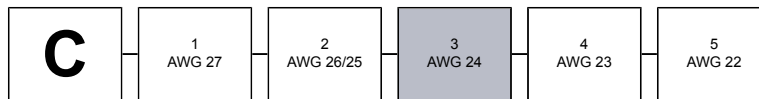
Connecting cable and patch cord for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (3rd edition) and also acc. to ISO/IEC 24702 and EN 50173- 3. Ideal for all applications of class D up to F Multimedia (Video, Data, Voice) >10 GbE acc. to IEEE 802.3an, Cable sharing, VoIP, PoE/PoE +/4PPoE. For application in rough environment because of sturdy PUR-sheath.



Application (Ethernet, TV)

Mechanical characteristics (cable)

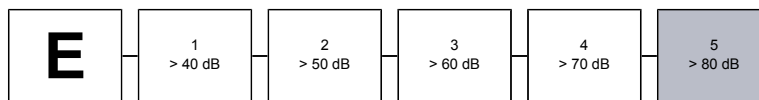
Bending radius (static) (min.)	5x outer-Ø
Max. strain relief	100 N
Crush resistance (long term)	1000 N/100mm
Impact strength (quantity of impacts)	10



Construction (conductor size, tensile strength)

Electromagnetic behaviour

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



EMC (coupling attenuation)

MegaLine[®] F6-70 S/F flex none PUR

KS-02YSC11Y 4 x 2 x AWG 24/7 PIMF

 Category 7 **S₂ P₃ A₄ C₃ E₅**
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.)	0.72 x c
Phase delay	460 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	-10 °C up to +50 °C
Temperature after installation	-40 °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 %)

Good resistance to oil, petrol, acid and leach, 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.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)
Link Performance	KERPEN MegaLine [®] systems and further commercial plug-in connector

Part number	Weight	copper weight	Outer Ø approx.	Colour
LKD7KS701390000	70 kg/km	35 kg/km	8.3 mm	Colza yellow