

MegaLine® F10-120 S/F FLEX Dca

KS-02YSCH 4 x 2 x AWG 26/7 PIMF

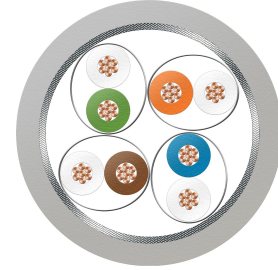
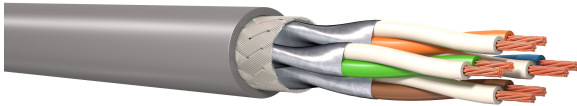
 Category 7_A **S₂ P₄ A₅ C₂ E₅**


Illustration similar

Construction

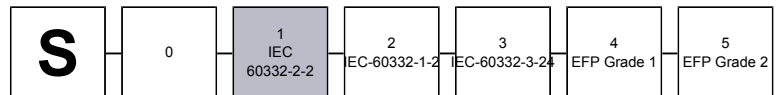
Conductor	bare copper wire, AWG26/7	Twisting	4 pairs
Insulation	cellular-PE, core-Ø: max. 1.05 mm	Overall screen	tinned copper wire braid
Colour code	wh/bl, wh/or, wh/gn, wh/br	Outer sheath	halogen free, flame retardant compound
Element	cores to pair	Colour	Light grey
Pair shielding	aluminium-bonded polyester tape		

Cable marking

KERPEN DATACOM Made in Germany MegaLine F10-120 S/F flex 4P H Cat.7A Dca s2 d1 a1 DoP: CDESK0000023 \$BA-Nr.\$ \$m-sign.\$

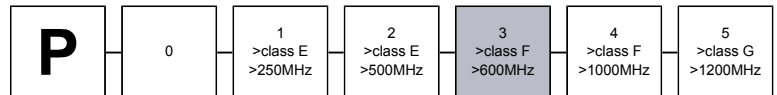
Fire Behaviour

Fire class / DoP	Dca -s2,d1,a1 / CDESK0000023
Fire performance	EN 50575 / EN 50399
Flame retardancy	acc. to IEC 60332-1-2
Halogen-free	IEC 60754-1/2
Acidity	IEC 60754-2
Smoke density	IEC 61034-1/2
Fire load (approx.)	0.38 MJ/m



Security (fire behaviour)

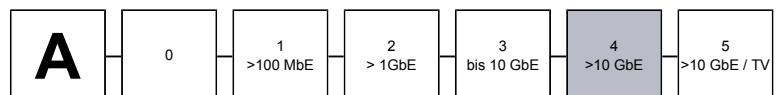
Performance

 better than Category 7 acc. to EN 50288 and IEC 61156
 excellent NEXT, exzellente screen properties (pair- and overall screen), low Skew
 Transmission bandwidth (typ.) 1200 MHz


Performance (class, bandwidth)

Applications

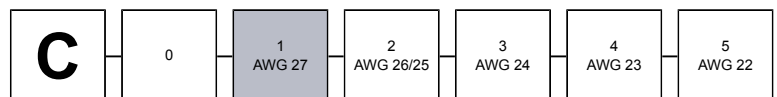
Installation cable for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (3rd edition). Ideal for all applications of class D up to FA Multimedia (Video, Data, Voice) >10 GbE acc. to IEEE 802.3 an, Cable sharing, VoIP, PoE/PoE+/4PPoE



Application (Ethernet, TV)

Mechanical characteristics (cable)

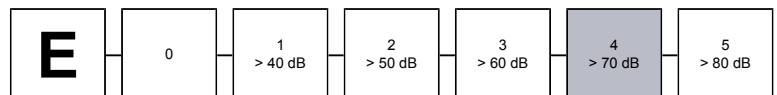
Bending radius (static) (min.)	5x outer-Ø
Tensile loading (max.)	60 N



Construction (conductor size, tensile strength)

Electromagnetic behaviour

Coupling resistance @ 10 MHz (nom.)	5 mΩ/m
Screen attenuation (nom.)	60 dB
Coupling attenuation (nom.)	85 dB
Segregation class according EN 50174-2	d



EMC (coupling attenuation)

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KS-02YSCH 4 x 2 x AWG 26/7 PIMF

 Category 7_A **S₂ P₄ A₅ C₂ E₅**
Electrical properties at 20°C

DC resistance (max.)	145 Ω/km
Insulation resistance (min.)	5 GΩ x km
Operating capacity (approx.)	44 pF/m
Signal velocity (approx.)	0.78 x c
Phase delay	440 ns/100m
Skew @ 100 MHz (approx.)	2 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/10m		NEXT dB		PS-NEXT dB		ACR dB@10m		PS-ACR dB@10m		ACR-F dB@10m		PSACR-F dB@10m		RL dB	
	typ.	Cat.7 _A max.*	typ.	Cat.7 _A min.*	typ.	Cat.7 _A min.*	typ.	Cat.7 _A min.*	typ.	Cat.7 _A min.*	typ.	Cat.7 _A min.*	typ.	Cat.7 _A min.*	typ.	Cat.7 _A min.*
1	0,25	0,29	100	80	97	77	100	80	97	77	100	80	97	77	24	23
10	0,76	0,85	99	80	96	77	99	79	96	77	95	74	92	71	33,9	25
100	2,49	2,78	95	78	92	75	93	75	90	72	69	54	66	51	38,3	20,1
200	3,69	3,97	92	74	89	71	88	70	85	67	65	48	62	45	35,3	18
250	4,18	4,46	90	72	87	69	86	68	83	65	62	46	59	43	32,9	17,3
500	5,6	6,41	83	68	80	65	78	62	75	59	54	40	51	37	29,7	17,3
600	6,74	7,06	81	67	78	64	74	60	71	57	50	38	47	35	30,6	17,3
700	7,32	7,67	80	66	77	63	72	58	69	55	50	37	47	34	31	15
800	7,89	8,24	77	65	74	62	69	57	66	54	50	36	47	33	26,7	14,5
900	8,5	8,78	75	64	72	61	67	55	64	52	36	35	33	32	28,6	14,1
1000	9,11	9,29	74	63,4	71	60	65	54	62	51	35	34	32	31	27,5	13,7
1100	9,5	-	72	-	69	-	63	-	60	-	28	-	25	-	26,9	-
1200	9,9	-	70	-	67	-	61	-	58	-	24	-	21	-	26,3	-

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

Standards, certificates and approvals

Conformity

 to CPR (EU/305/2011)
 acc. to LVD (2014/35/EU)

Quality seal with production control

GHMT PVP

Link Performance

KERPEN DATACOM MegaLine® systems and further commercial plug-in connector

Inspection certificate

UNDEFINED TEXT

Part number	Drum packing	Weight	copper weight	Outer Ø approx.	Colour
LKD7KS700030100	1000 m	42 kg/km	23 kg/km	6.1 mm	Light grey