

MegaLine® F10-120 S/F flex

S₂P₄A₅C₂E₅

LEONI

Type:

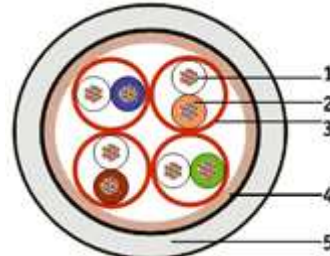
KS-02YSCH 4x2xAWG 26/7 PIMF

Category: 7_A



Construction:

- | | |
|----------------------|--|
| 1 Conductor: | bare copper wire, AWG26/7 |
| 2 Insulation: | cellular-PE, core-Ø: max. 1.05 mm |
| Twisting element: | pair |
| 3 Individual screen: | aluminium-bonded polyester tape |
| Twisting: | 4 pairs |
| 4 Overall screen: | tinned copper wire braid |
| 5 Outer sheath: | halogen free, flame retardant compound |



colour code: wh/bl, wh/or, wh/gn, wh/br
 Colour outer sheath: grey, RAL-7035

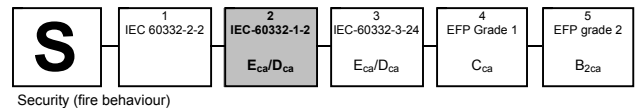
printing outer sheath:

LEONI MegaLine F10-120 S/F flex 4P H SPACE Code 24525 Dca s2 d2 a1 \$Production lot code\$ \$Meter marking\$

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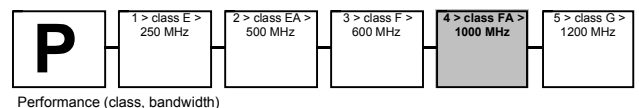
fire behaviour:

flame resistance:	acc. to IEC 60332-1-2
halogen free:	acc. to IEC 60754-1/2
smoke density:	acc. to IEC 61034-1/2
Acidity:	according EN 60754-2
fire load (MJ/m):	0.38 (approx.)
Class:	D _{ca} s2 d2 a1
	according EN 50575 / EN 50399



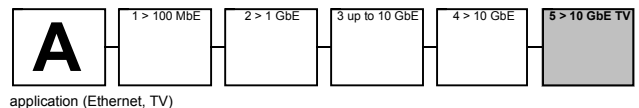
performance:

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



applications:

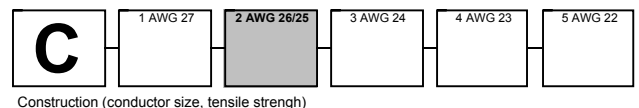
Connecting cable and patch cord for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (3rd edition) and for residential cabling acc. to ISO/IEC 15018 and EN 50173-4. Ideal for all applications of class D up to FA Multimedia (TV, Video, Data, Voice) >10 GbE acc. to IEEE 802.3 an, Cable sharing, VoIP, PoE/PoE+



mechanical characteristics:

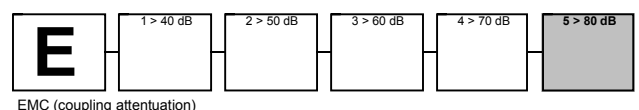
bending radius:
 in operation: 5 x outer diameter (min.)
 tensile loading (N):

60 (max.)



electromagnetic behaviour:

transfer impedance at 10 MHz (mOhm/m):	5 (nominal value)
screen attenuation up to 1000 MHz (dB):	60 (nominal value)
coupling attenuation up to 1000 MHz (dB):	85 (nominal value)
Segregation class according EN 50174-2::	d



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Type:

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Electrical characteristics at 20°C:

conductor resistance (Ohm/km):	145 (max.)
insulation resistance (GOhm x km):	5 (min.)
mutual capacitance (pF/m):	44 (approx.)
velocity of propagation (c):	0.78 (approx.)
phase delay (ns/100m):	440 (approx.)
delay skew at 100 MHz (ns/100m):	2.5 (approx.)
characteristic impedance at 100 MHz (Ohm):	100±5
test voltage U _{eff} (V):	1000
operating voltage (V):	125 (max.)

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frequenz MHz	attenuation dB/10m		NEXT dB		PS-NEXT dB		ACR dB@10m		PS-ACR dB@10m		EL-FEXT dB@10m		PS-ELFEXT 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	,25	,29	100	80	97	77	100	80	97	77	100	80	97	77	24	23
10	,76	,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 50288-9-2 (2015)/IEC 61156-6(2010)

Chemical characteristics:

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

Thermal characteristics:

Temperature range for fixed installation
Temperature range for mobile operation

-20°C up to +60°C
0°C up to +50°C

certificate and approbation:

Link Performance:

test certificate:

conform to LVD (2014/35/EU)

Conform to CPR (EU/305/2011)

LEONI MegaLine® systems and further commercial plug-in connector
acc. to DIN 55350-18-4.2.1 bzw. EN 10204



Article Number:	Presentation (m)	Size:	Outer diameter (mm):	weight (kg/km):	copper sales factor (kg/km):	colour of outer sheath:
LKD7KS700030000	general	4P	5,8 (approx.)	41 (approx.)	23,5	grey, RAL-7035
LK97KS700030050	500					
LK97KS700030100	1000					