

MegaLine® F6-90 S/F flex

S₂ P₃ A₄ C₁ E₅

Type:

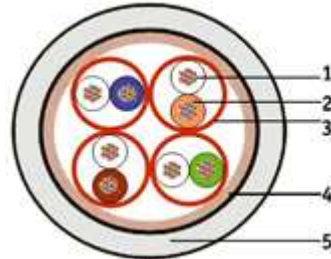
KS-02YSCH 4x2xAWG 27/7 PIMF



Category: 7

Construction:

- 1 Conductor: bare copper wire, AWG27/7
- 2 Insulation: cellular-PE, core-Ø: max. 1.0 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:

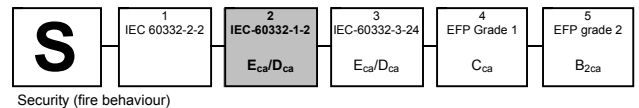
LEONI MegaLine F6-90 S/F flex 4P H SPACE Code 23415 Dca s2 d2 a1 Number of registration VDE 8080 \$Production lot code\$ \$Meter marking\$

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fire behaviour:

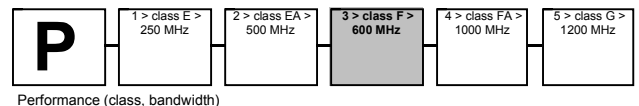


- flame resistance: acc. to IEC 60332-1-2
- halogen free: acc. to IEC 60754-1/2
- smoke resistance: acc. to IEC 61034-1/2
- Acidity: according EN 60754-2
- fire load (MJ/m): 0.33 (approx.)
- Class: D_{ca} s2 d2 a1 according EN 50575 / EN 50399



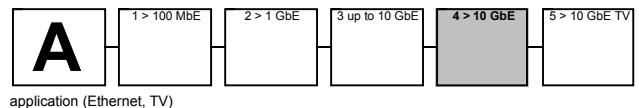
performance:

better than Category 7 acc. to EN 50288 and IEC 61156 excellent NEXT, exzellente screen properties (pair- and overall screen), low Skew
 bandwidth (typical): 900 MHz



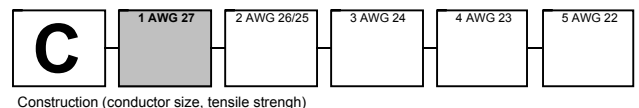
applications:

Connecting cable and patch cord for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (2nd edition). Ideal for all applications of class D up to F Multimedia (Video, Data, Voice) >10 GbE acc. to IEEE 802.3 an, Cable sharing, VoIP, PoE/PoE+



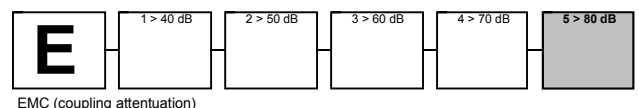
mechanical characteristics:

- bending radius:
- in operation: 5 x outer diameter (min.)
- tensile loading (N): 40 (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): 80 (nominal value)
- Segregation class according EN 50174-2: d



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LEONI

Type:

KS-02YSCH 4x2xAWG 27/7 PIMF


Electrical characteristics at 20°C:

conductor resistance (Ohm/km):	170 (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):	430 (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.)

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 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	,26	,29	95	80	92	77	95	80	92	77	92	80	89	80	21,8	-
10	,83	,85	94	80	91	77	94	79	91	77	84	74	81	71	29,7	25
100	2,74	2,78	90	72	87	69	88	70	85	69	70	54	67	51	35	20,1
200	3,9	4,01	87	68	84	65	83	64	80	65	60	48	57	45	33	18
250	4,39	4,53	85	66	82	63	81	62	78	63	56	46	53	43	31,6	17,3
500	6,21	6,62	78	62	75	59	72	55	69	59	52	40	49	37	28,8	17,3
600	6,91	7,33	76	61	73	58	69	53	66	58	48	38	45	35	27,1	17,3
700	7,48	-	75	-	72	-	67	-	64	-	34	-	31	-	26,4	-
800	8,06	-	72	-	69	-	64	-	61	-	34	-	31	-	24,7	-
900	8,62	-	70	-	67	-	62	-	59	-	11	-	8	-	24,4	-

* EN 50288-4-2(2014)/IEC 61156-6(2002)

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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:

quality seal with production control:

Link Performance:

test certificate:

conform to LVD (2014/35/EU)

Conform to CPR (EU/305/2011)

No. of registration VDE

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

CE

CE

Article Number:	Size:	Outer diameter (mm):	weight (kg/km):	sales copper weight (kg/km):	colour of outer sheath:
LKD7KS700140000	4P	5.7 (approx.)	34 (approx.)	17	grey, RAL-7035