

MegaLine® F6-90 S/F

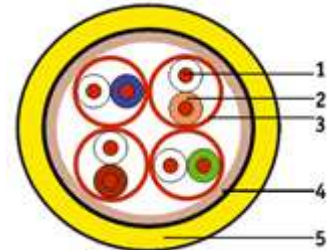
S₃ P₃ A₄ C₄ E₅



Type:
KS-02YSCH 4x2xAWG 23/1 PIMF

Category: 7

Construction:
1 Conductor: bare copper wire, AWG 23/1
2 Insulation: cellular-PE, core-Ø: nominal value 1.4 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



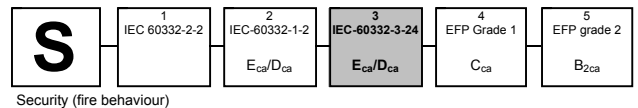
colour code: wh/bl, wh/or, wh/gn, wh/br
 Colour outer sheath: yellow, RAL-1021

printing outer sheath:
 LEONI MegaLine F6-90 S/F 4P H SPACE Code 33445 Dca s2 d2 a1 DoP: CDESK0000005 Made in Germany \$Production lot code\$
 \$Meter marking\$

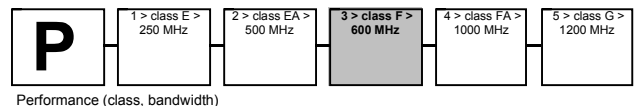
DATA CENTER



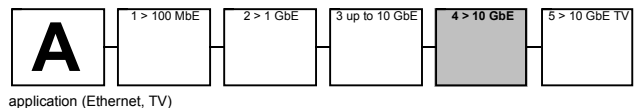
fire behaviour:
 flame resistance: acc. to IEC 60332-3-24
 halogen free: acc. to IEC 60754-1/2
 smoke density: acc. to IEC 61034-1/2
 Acidity: according EN 60754-2
 fire load (MJ/m): 0.60 (approx.)
 Class: D_{ca} s2 d2 a1
 according EN 50575 / EN 50399



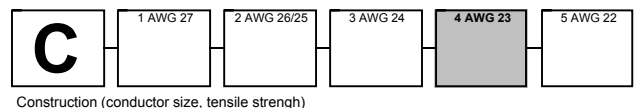
performance:
 better than Category 7 acc. to EN 50288 and IEC 61156 excellent NEXT, exzellente screen properties (pair- and overall screen), low Skew
 bandwidth (typical): 1000 MHz



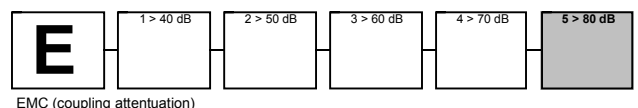
applications:
 Installation cable for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (3rd edition). Ideal for all applications of class D up to F Multimedia (Video, Data, Voice) >10 GbE acc. to IEEE 802.3 an, Cable sharing, VoIP, PoE/PoE+



mechanical characteristics:
 bending radius:
 during laying: 8 x outer diameter (min.)
 acc. to Installation: 4 x outer diameter (min.)
 tensile loading (N): 110 (max.)
 crush resistance (N/100mm): 1000
 impact strength (quantity of impacts): 10



electromagnetic behaviour:
 transfer impedance at 10 MHz (mOhm/m): 5 (nominal value)
 screen attenuation up to 1000 MHz (dB): 70 (nominal value)
 coupling attenuation up to 1000 MHz (dB): 85 (nominal value)
 Segregation class according EN 50174-2: d



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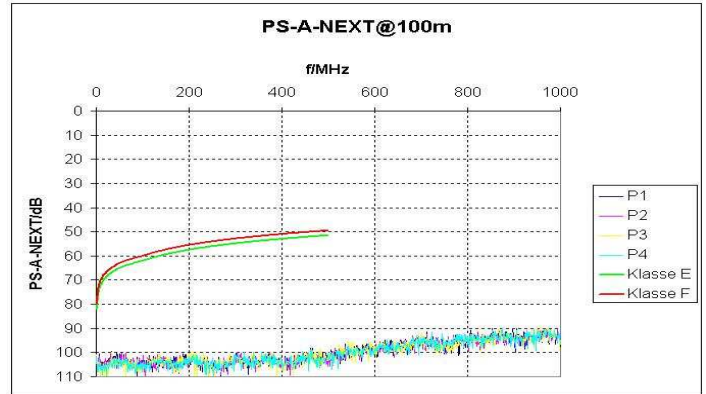
S₃ P₃ A₄ C₄ E₅



Type:
KS-02YSCH 4x2xAWG 23/1 PIMF

Electrical characteristics at 20°C:

conductor resistance (Ohm/km):	75 (max.)
insulation resistance (GOhm x km):	5 (min.)
mutual capacitance (pF/m):	42 (approx.)
capacitance unbalance (e) (pF/km):	1100 (approx.)
velocity of propagation (c):	0.80 (approx.)
phase delay (ns/100m):	420 (approx.)
delay skew at 100 MHz (ns/100m):	5 (approx.)
characteristic impedance at 100 MHz (Ohm):	100±5
test voltage Ueff (V):	1000
operating voltage (V):	125 (max.)



frequenz MHz	attenuation dB/100m		NEXT dB		PS-NEXT dB		ACR dB@100m		PS-ACR dB@100m		EL-FEXT dB@100m		PS-ELFEXT 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	1,9	2	102	80	99	77	101	78	98	75	109	80	106	77	29	23
10	4,8	5,7	102	80	99	77	98	74	95	71	108	74	105	71	28	25
100	16,4	18,5	102	72	99	69	86	54	83	51	93	54	90	51	27	20,1
200	24,5	26,8	102	68	99	65	78	41	75	38	85	48	82	45	25	18
250	27,8	30,2	102	66	99	63	75	36	72	33	82	46	79	43	24	17,3
450	36,1	41,6	97	63	94	60	61	21	58	18	72	41	69	38	22	17,3
500	38,2	44,1	97	62	94	59	59	18	56	15	68	40	65	37	21	17,3
600	42,9	48,9	92	61	89	58	49	12	46	9	62	38	59	35	20	17,3
700	47,7	-	92	-	89	-	44	-	41	-	59	-	56	-	19	-
800	50,8	-	90	-	87	-	39	-	36	-	56	-	53	-	18	-
900	55,1	-	85	-	82	-	30	-	27	-	52	-	49	-	17	-
1000	58	-	80	-	77	-	22	-	19	-	42	-	39	-	15	-

* EN 50288-4-1(2014)/IEC 61156-5(2009)

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Chemical characteristics:

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

Thermal characteristics:

Temperature range for fixed installation: -20°C up to +60°C
 Temperature range for mobile operation: 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)

GHMT PVP
 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:
LKD7KS700100000	general	4P	7.4 (approx.)	57 (approx.)	35	yellow, RAL-1021
LK97KS700100010	100					
LK97KS700100025	250					
LK97KS700100050	500					
LK97KS700100100	1000					