

MegaLine Data Centre Link 24P

S₂ P₃ A₄ C₂ E₅

Type:

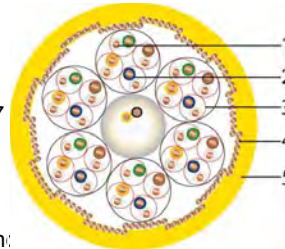
KS-(02YS/v2Y)CH 6x(4x2xAWG 26/1 PIMF) + 2xAWG 28/7

Category: 7



Construction:

- 1 Conductor: bare copper wire, AWG 26/1 and tinned stranded copper wire, AWG 28/7
- 2 Insulation: cellular-PE, core-Ø: nominal 1,0 mm (pairs AWG26), PE, core-Ø: nominal 0,7 mm (core AWG28)
- Twisting element: pair and core
- 3 Individual screen: aluminium-bonded polyester tape
- Twisting: 4 pairs
- twisting multi: 6 x 4 pairs over central filling element and 2 cores
- 4 Overall screen: tinned copper wire braid
- 5 Outer sheath: halogen free, flame retardant compound



colour code: ws/bl, ws/or, ws/gn, ws/br + ye, bc + identification thread with numbers 1 up to n
yellow, RAL-1021

Colour outer sheath:

printing outer sheath:

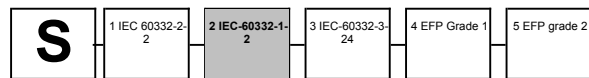
LEONI MegaLine Data Centre Link 24P H SPACE Code 23434 \$Production lot code\$ \$Meter markings\$

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fire behaviour:

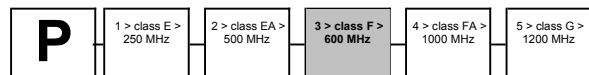
- flame resistance: acc. to IEC 60332-1-2
- halogen free: acc. to IEC 60754-1/2
- smoke resistance: acc. to IEC 61034-1/2
- fire load (MJ/m): 2.4 (approx.)



Security (fire behaviour)

capability characteristics:

Category 7 acc. to EN 50288 and IEC 61156 excellentNEXT, exzellente screen properties (pair- and overall screen), lowSkew bandwidth 700 MHz



Performance (class, bandwidth)

applications:

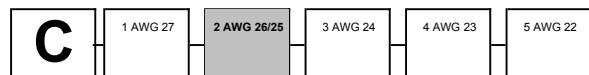
High Density installation cable for generic cabling systems according to ISO/IEC 11801 and EN 50173 (2nd edition) as well as ISO/IEC 24764 and EN 50173-5. Ideal for all applications class D up to E_A up to 10 GbE according to IEEE 802.3an, cable sharing, VoIP, PoE. For channels up to 50m. 2 additional cores for management and monitoring.



application (Ethernet, TV)

mechanical characteristics:

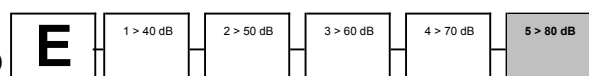
- bending radius: during laying: 8 x outer diameter (min.)
- acc. to Installation: 4 x outer diameter (min.)
- tensile loading (N): 300 (max.)
- crush resistance (N/100mm): 1000
- impact strength (quantity of impacts): 10



Construction (conductor size, tensile strength)

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)



EMC (coupling attenuation)

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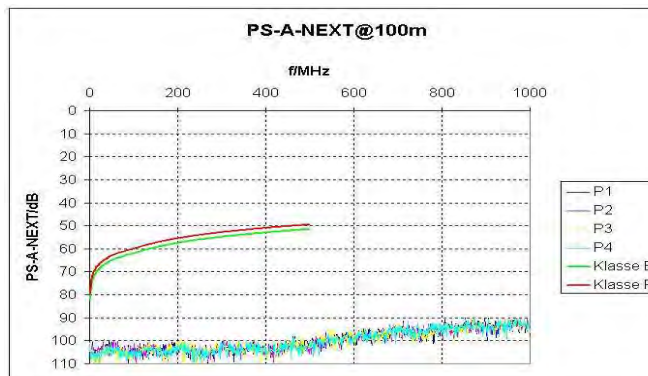
Type:

KS-(02YS/v2Y)CH 6x(4x2xAWG 26/1 PIMF) + 2xAWG 28/7



Electrical characteristics at 20°C:

DC resistance (Ohm/km):	150 (max.)
insulation resistance (GOhm x km):	5 (min.)
mutual capacitance (pF/m):	47 (approx.)
capacitively coupled (e) (pF/km):	1100 (approx.)
signal tempo (c):	0.7 (approx.)
signal transit time (ns/100m):	480 (approx.)
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	2,8	2,9	100	80	97	77	97	77	94	74	100	80	97	77	24	
10	7,6	8,5	99	80	96	77	91	71	88	68	95	74	92	71	28	25
100	25,2	27,8	95	72	92	69	70	44	67	41	69	54	66	51	26	20,1
200	35,7	40,1	92	68	89	65	56	28	53	25	65	48	62	45	25	18
250	40	45,3	90	66	87	63	50	21	47	18	62	46	59	43	24	17,3
500	57,2	66,2	83	62	80	59	26	-4	23	-7	54	40	51	37	22	17,3
600	63,1	73,3	81	61	78	58	18	-12	15	-15	50	38	47	35	20	17,3
700	68,8	-	80	-	77	-	11	-	8	-	50	-	47	-	18	-

* EN 50288-4-2(2014)/IEC 61156-6(2010)

As a result of twisting of several single elements, multitypes may have up to 3% higher attenuation and frequenz reflection.

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Chemical characteristics:

Free of harzadous 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)

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



Article Number:	Size:	Outer diameter (mm):	weight (kg/km):	copper index (kg/km):	colour of outer sheath:
LKD7KS703090000	6x4P+2A	16 (approx.)	228 (approx.)	106	yellow, RAL-1021

packaging: drum 1000m