

MegaLine® E2-30 U/U

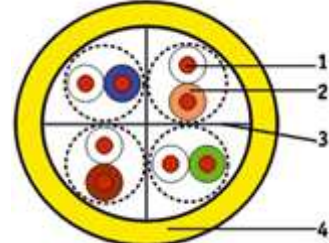
S₂P₁A₂C₄E₁



Type:
KS-2YH 4x2xAWG 23/1

Category: 6

Construction:
1 Conductor: bare copper wire, AWG 23/1
2 Insulation: PE
Twisting element: pair
3 Twisting: 4 pairs over cross element
4 Outer sheath: halogen free, flame retardant compound



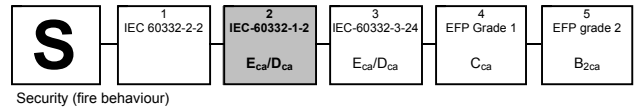
colour code: whbl/bl, whor/or, whgn/gn, whbr/br
 Colour outer sheath: yellow, RAL-1021

printing outer sheath:
 LEONI MegaLine E2-30 U/U 4P H SPACE Code 21241 Eca \$Production lot code\$ \$Meter marking\$

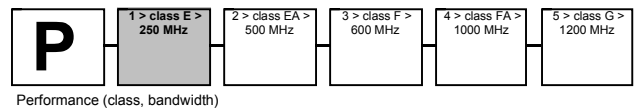
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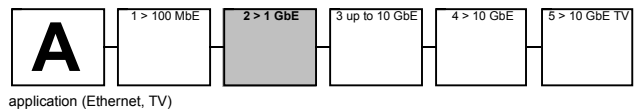
fire behaviour:
 flame resistance: acc. to IEC 60332-1-2
 halogen free: acc. to IEC 60754-1/2
 smoke density: acc. to IEC 61034-1/2
 Acidity: according EN 60754-2
 fire load (MJ/m): 0.65 (approx.)
 Class: E_{ca}
 according EN 50575 / EN 50399



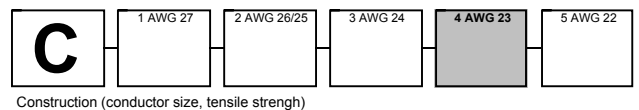
performance:
 better than category 6 acc. to EN 50288 and IEC 61156
 bandwidth (typical): 300 MHz



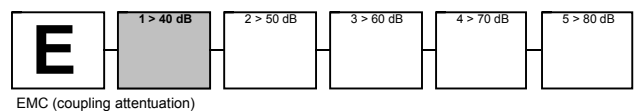
applications:
 Installation cable for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (3rd edition). Applicable for applications of class D up to E up to 1 GbE acc. to IEEE 802.3 ab, VoIP, PoE/PoE+



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:
 coupling attenuation up to 1000 MHz (dB): 45 (nominal value)
 Segregation class according EN 50174-2:: b



MegaLine® E2-30 U/U

S₂ P₁ A₂ C₄ E₁

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Type:
KS-2YH 4x2xAWG 23/1



Electrical characteristics at 20°C:

conductor resistance (Ohm/km):	78 (max.)
insulation resistance (GOhm x km):	5 (min.)
mutual capacitance (pF/m):	50 (approx.)
capacitance unbalance (e) (pF/km):	1100 (approx.)
velocity of propagation (c):	0.67 (approx.)
phase delay (ns/100m):	528 (approx.)
delay skew at 100 MHz (ns/100m):	30 (approx.)
characteristic impedance at 100 MHz (Ohm):	100±5
test voltage U _{eff} (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.6 max.*	typ.	Cat.6 min.*	typ.	Cat.6 min.*	typ.	Cat.6 min.*	typ.	Cat.6 min.*	typ.	Cat.6 min.*	typ.	Cat.6 min.*	typ.	Cat.6 min.*
1	1,8	2,1	94	66	91	64	92	64	89	62	102	66	99	64	25,4	-
4	2,7	3,8	88	65	85	63	85	61	82	59	96	58	93	55	30,3	23
10	4,7	6	81	59	78	57	76	53	73	51	85	50	82	47	33,9	25
16	6,6	7,6	76	56	73	54	70	49	67	47	78	46	75	43	33,6	25
32,25	9,5	10,9	72	52	69	50	62	41	59	39	70	40	67	37	33,7	23,6
62,5	13	15,5	68	47	65	45	55	32	52	30	63	34	60	31	34,4	21,5
100	17,4	19,9	64	44	61	42	46	24	43	22	57	30	54	27	33,5	20,1
155	22	25,3	60	41	57	39	38	16	35	14	50	26	47	23	32,2	18,8
200	26,6	29,1	58	40	55	38	31	11	28	9	45	24	42	21	30,5	18
250	30,4	33	57	38	54	36	27	5	24	3	40	22	37	19	29	17,3
300	33,1	-	54	-	51	-	20	-	17	-	37	-	34	-	27	-

* EN 50288-6-1(2014)/IEC 61156-5(2009)

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Chemical characteristics:

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:
LKD7KS600020000	general	4P	6.4 (approx.)	45 (approx.)	21	yellow, RAL-1021
LK97KS600020030	305					
LK97KS600020050	500					
LK97KS600020100	1000					