

MegaLine® D1-20 SF/U 11Y flex

S₂P₀I₁C₂E₄

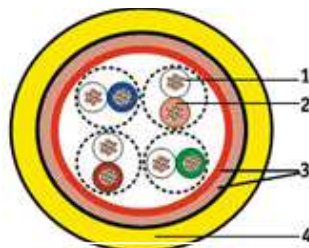
LEONI

Type:

KS-2Y(ST+C)11Y 4x2xAWG 26/7

Category: 5**Construction:**

- 1 Conductor: bare copper wire, AWG26/7
 2 Insulation: PE, core-Ø: max. 1.0 mm
 Twisting element: pair
 Twisting: 4 pairs
 3 Overall screen: tinned copper braid, optical cover ca. 85%
 4 Outer sheath: PUR, flame retardant



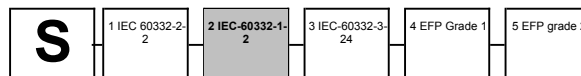
colour code: whbl/bl, whor/or, whgn/gn, whbr/br
 Colour outer sheath: yellow, RAL-1021

printing outer sheath:

LEONI MegaLine D1-20 SF/U flex 4P 11Y SPICE Code 20124* E96807 \$UL\$ AWM 21586 80°C 30V * \$Production lot code\$
 \$Meter marking\$

INDUSTRY**fire behaviour:**

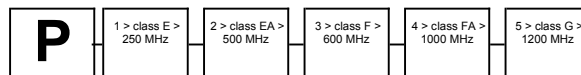
flame resistance: acc. to IEC 60332-1-2
 halogen free: acc. to IEC 60754-1/2
 smoke resistance: acc. to IEC 61034-1/2
 fire load (MJ/m): 0.57 (approx.)



Security (fire behaviour)

capability characteristics:

better than category 5 acc. to EN 50288 and IEC 61156 exzellent
 screen properties
 bandwidth 200 MHz



Performance (class, bandwidth)

applications:

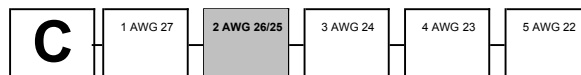
Connecting cable and patch cord for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (2nd edition) and also acc. to ISO/IEC 24702 and EN 50173-3. Ideal for all applications of class D up to 1 GbE acc. to IEEE 802.3 ab, VoIP, PoE/PoE+. For application in rough environment because of sturdy PUR-sheath.



application (Ethernet, TV)

mechanical characteristics:

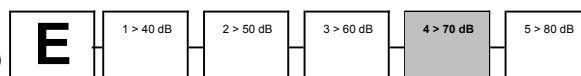
bending radius:
 in operation: 5 x outer diameter (min.)
 tensile loading (N): 60 (max.)



Construction (conductor size, tensile strength)

electromagnetic behaviour:

transfer impedance at 10 MHz (mOhm/m): 6 (nominal value)
 screen attenuation up to 1000 MHz (dB): 55 (nominal value)
 coupling attenuation up to 1000 MHz (dB): 75 (nominal value)



EMC (coupling attenuation)

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**Electrical characteristics at 20°C:**

DC resistance (Ohm/km):	145 (max.)
insulation resistance (GOhm x km):	5 (min.)
mutual capacitance (pF/m):	51 (approx.)
signal tempo (c):	0.65 (approx.)
signal transit time (ns/100m):	510 (approx.)
Skew at 100 MHz (ns/100m):	15 (approx.)
Characteristic impedance at 100 MHz (Ohm):	100±5
test voltage Ueff (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.5 max.*	typ.	Cat.5 min.*	typ.	Cat.5 min.*	typ.	Cat.5 min.*	typ.	Cat.5 min.*	typ.	Cat.5 min.*	typ.	Cat.5 min.*	typ.	Cat.5 min.*
1	,24	,32	76	65	73	62	76	65	73	62	91	64	88	61	24,9	-
4	,44	,6	71	56	68	53	70	56	67	53	76	52	73	49	29,8	23
10	,8	,95	64	50	61	47	63	49	60	47	68	44	65	41	38,2	25
16	1,01	1,21	60	47	57	44	59	46	56	44	64	40	61	37	39,3	25
31,25	1,44	1,71	56	43	53	40	54	41	51	40	58	34	55	31	36,7	23,6
62,5	2,07	2,48	52	38	49	35	50	36	47	35	52	28	49	25	35	21,5
100	2,66	3,2	48	35	45	32	45	32	42	32	47	24	44	21	29,9	20,1
155	3,26	-	45	-	42	-	42	-	39	-	42	-	39	-	26,2	-
200	3,86	-	42	-	39	-	39	-	36	-	37	-	34	-	23,5	-

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

INDUSTRY

**Chemical characteristics:**

Free of hazardous substances acc. to RoHS 2011/65/EU
 Oil resistance acc. to EN 60811-2-1
 ozone resistance acc. to EN 60811
 microbe resistant acc. to DIN VDE 0282
 chemical resistant
 Hydrolysis resistant acc. to DIN 53504
 Free of lackbawet substances (e.g. silicon oil)

Thermal characteristics:

Temperature range for fixed installation
 Temperature range for mobile operation

-40°C up to +70°C
 0°C up to +50°C

certificate and approbation:

quality seal with production control:
 Link Performance:
 test certificate:
 conform to LVD (2006/95/EC):

UL AWM STYLE 21586
 LEONI MegaLine® systems and further commercial plug-in 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:
LKD7KS500760000	4P	6.0 (approx.)	44 (approx.)	24	yellow, RAL-1021

packaging:

drum 1000m