

## Li7Ybl · Li7Yvz · Li6Ybl · Li6Yvz · Li51Yvn

(AWG 7 wires) ETFE, FEP and PFA insulated stranded hook-up wire with extended temperature range

375 V



### Construction:

<b>Conductor:</b>	bare, tinned or nickel-plated copper strands acc. to ASTM B 286
<b>Insulation:</b>	ETFE, 7Y11 acc. to VDE 0207-6 or FEP, 6Y11 acc. to VDE 0207-6 or PFA

### Outstanding features:

#### ETFE:

high resistance against chemicals and solvents  
low and high temperature resistance  
good electrical insulating characteristics with low, nearly frequency-independent dielectric characteristics

#### FEP + PFA:

excellent resistance against chemicals and solvents  
excellent temperature resistance and flexibility at low temperatures  
excellent electrical insulating characteristics with low, nearly frequency-independent dielectric characteristics

### Technical data:

<b>Peak operating voltage:</b>	max. 375 V		
<b>Testing voltage:</b>	1500 V		
<b>Installation:</b>	for one single bend the inner bending radius must not be smaller than 0,5 x outer diameter of the insulated strands		
<b>Radiation resistance:</b>	<b>ETFE:</b> 2 x 10 <sup>8</sup> cJ/kg	<b>FEP:</b> 1 x 10 <sup>7</sup> cJ/kg	<b>PFA:</b> 1 x 10 <sup>6</sup> cJ/kg
<b>Temperature range</b>	<b>ETFE:</b>	<b>FEP:</b>	<b>PFA:</b>
<i>fixed laying:</i>	-90/+135 °C	-90/+180 °C	-90/+250 °C
<i>flexible application:</i>	-55/+135 °C	-55/+180 °C	-55/+250 °C
<i>limited time of use:</i>	+150 °C	+200 °C	+260 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2		
<b>Chem. resistance:</b>	very good against acids, halogens, bases, chlorinated solvents as well as organic and inorganic compounds – FEP has a slightly better resistance than ETFE		
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see chapter N „Technical Data“		

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ETFE (7Y) bare copper item no.	ETFE (7Y) tinned copper item no.	AWG	nominal ø single wire ø mm	max. outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
3336 .. 28*	3337 .. 28*	28/7	0,127	0,76	0,9	1,3
3336 .. 26*	3337 .. 26*	26/7	0,160	0,86	1,3	1,9
3336 .. 24*	3337 .. 24*	24/7	0,203	0,99	2,2	2,8
3336 .. 22*	3337 .. 22*	22/7	0,254	1,14	3,5	4,1
3336 .. 20*	3337 .. 20*	20/7	0,320	1,34	5,4	6,2
FEP (6Y) bare copper item no.	FEP (6Y) tinned copper item no.	AWG	nominal ø single wire ø mm	max. outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
3339 .. 28*	3340 .. 28*	28/7	0,127	0,76	0,9	1,5
3339 .. 26*	3340 .. 26*	26/7	0,160	0,86	1,3	2,1
3339 .. 24*	3340 .. 24*	24/7	0,203	0,99	2,2	3,0
3339 .. 22*	3340 .. 22*	22/7	0,254	1,14	3,5	4,4
3339 .. 20*	3340 .. 20*	20/7	0,320	1,34	5,4	6,5
PFA (51Y) nickel-plated copper item no.		AWG	nominal ø single wire ø mm	max. outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
3344 .. 28*		28/7	0,127	0,76	0,9	1,4
3344 .. 26*		26/7	0,160	0,86	1,4	2,0
3344 .. 24*		24/7	0,203	0,99	2,2	2,9
3344 .. 22*		22/7	0,254	1,14	3,4	4,2
3344 .. 20*		20/7	0,320	1,34	5,4	6,3

#### \* ETFE, FEP, PFA colour code, figures 5 and 6 of item no.:

01 = black	05 = yellow	09 = orange
02 = blue	06 = green	11 = red
03 = brown	07 = violet	15 = nature
04 = grey	08 = white	

Other dimensions and colours are possible on request.