

Li7Ybl · Li7Yvz · Li6Ybl · Li6Yvz
Li51Yvn

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



Construction:

Conductor:	bare, tinned or nickel-plated copper strands acc. to ASTM B 286
Insulation:	ETFE, 7YI1 acc. to VDE 0207 part 6 or FEP, 6YI1 acc. to VDE 0207 part 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

EAC approval

Technical data:

Peak operating voltage:	max. 375 V		
Testing voltage:	1500 V		
Installation:	for one single bend the inner bending radius must not be smaller than 0,5 x outer diameter of the insulated strands		
Radiation resistance:	ETFE: 2 x 10 ⁸ cJ/kg	FEP: 1 x 10 ⁷ cJ/kg	PFA: 1 x 10 ⁶ cJ/kg
Temperature range	ETFE:	FEP:	PFA:
<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
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2		
Chem. resistance:	very good against acids, halogens, bases, chlorinated solvents as well as organic and inorganic compounds – FEP has a slightly better resistance than ETFE		
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17		

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	0,73	0,9	1,3
3336 .. 26	3337 .. 26	26/7	0,160	0,83	1,3	1,9
3336 .. 24	3337 .. 24	24/7	0,203	0,96	2,2	2,8
3336 .. 22	3337 .. 22	22/7	0,254	1,11	3,5	4,1
3336 .. 20	3337 .. 20	20/7	0,320	1,31	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	0,73	0,9	1,5
3339 .. 26	3340 .. 26	26/7	0,160	0,83	1,3	2,1
3339 .. 24	3340 .. 24	24/7	0,203	0,96	2,2	3,0
3339 .. 22	3340 .. 22	22/7	0,254	1,11	3,5	4,4
3339 .. 20	3340 .. 20	20/7	0,320	1,31	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	0,73	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

Other dimensions and colours are possible on request.

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	