

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
Colour code:	coloured

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:

Peak operating voltage:	max. 900 V		
Testing voltage:	2500 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/14		

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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
3345 .. 28	3346 .. 28	28/7	0,127	0,93	0,9	1,8
3345 .. 26	3346 .. 26	26/7	0,160	1,03	1,3	2,4
3345 .. 24	3346 .. 24	24/7	0,203	1,16	2,2	3,4
3345 .. 22	3346 .. 22	22/7	0,254	1,31	3,5	4,8
3345 .. 20	3346 .. 20	20/7	0,320	1,51	5,4	7,0
3345 .. 18	3346 .. 18	18/19	0,254	1,78	9,2	11,0
3345 .. 16	3346 .. 16	16/19	0,287	1,94	11,8	14,0
3345 .. 14	3346 .. 14	14/19	0,361	2,30	18,7	21,0
3345 .. 12	3346 .. 12	12/19	0,455	2,76	29,7	32,0

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
3348 .. 28	3349 .. 28	28/7	0,127	0,93	0,9	2,0
3348 .. 26	3349 .. 26	26/7	0,160	1,03	1,3	2,7
3348 .. 24	3349 .. 24	24/7	0,203	1,16	2,2	3,7
3348 .. 22	3349 .. 22	22/7	0,254	1,31	3,5	5,2
3348 .. 20	3349 .. 20	20/7	0,320	1,51	5,4	7,5
3348 .. 18	3349 .. 18	18/19	0,254	1,78	9,2	12,0
3348 .. 16	3349 .. 16	16/19	0,287	1,94	11,8	14,0
3348 .. 14	3349 .. 14	14/19	0,361	2,30	18,7	22,0
3348 .. 12	3349 .. 12	12/19	0,455	2,76	29,7	33,0

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
3353 .. 28	28/7	0,127	0,96	0,9	2,0
3353 .. 26	26/7	0,160	1,06	1,4	2,7
3353 .. 24	24/7	0,203	1,17	2,2	3,6
3353 .. 22	22/7	0,254	1,34	3,4	5,1
3353 .. 20	20/7	0,320	1,54	5,4	7,3
3353 .. 18	18/19	0,254	1,81	9,2	11,0
3353 .. 16	16/19	0,287	1,97	11,8	14,0

Other dimensions and colours are possible on request.

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

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