ETFE, FEP and PFA insulated stranded hook-up wire Li7Ybl, Li6Ybl, Li6Yvz, LiPFAvn - with extended temperature range

900 V



Construction:

Conductor:	**Li7Ybl:**	bare copper strands
	Li6Ybl:	bare copper strands
	Li6Yvz:	tinned copper strands
	LiPFAvn:	nickel-plated copper strands acc. to ASTM B 286
Insulation:	**Li7Ybl:**	ETFE, 7YI1 acc. to VDE 0207-6
	Li6Ybl, Li6Yvz:	FEP, 6YI1 acc. to VDE 0207-6
	LiPFAvn:	PFA, 51YI1 acc. to VDE 0207-6

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
- UL recognized

Technical data:

Peak operating voltage:	max. 900 V		
Voltage UL:	**FEP + PFA:** 600 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:** 2×10^8 cJ/kg	**FEP:** 1×10^7 cJ/kg	**PFA:** 1×10^6 cJ/kg
Temperature range	**ETFE:**	**FEP:**	**PFA:**
fixed laying:	-90/+135 °C	-90/+180 °C	-90/+250 °C
flexible application:	-55/+135 °C	-55/+180 °C	-55/+250 °C
limited time of use:	+150 °C	+200 °C	+260 °C
UL:		up to +150 °C	up to +250 °C
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, **Li6Ybl, Li6Yvz, LiPFAvn:** UL FT2		
Oil resistance:	very good acc. to UL standard 758, at 80 °C after 80 days		
Chem. resistance:	very good against acids, halogens, bases, chlorinated solvents as well as organic and inorganic compounds		
Absence of harmful substances:	acc. to RoHS directive of the European Union, see chapter N „Technical data“		

* 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	

Li7Ybl

item no. bare copper ETFE	AWG	nominal single wire ø mm	approx. outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
3345 .. 28*	28/7	0,127	0,93	0,9	1,8
3345 .. 26*	26/7	0,160	1,03	1,3	2,4
3345 .. 24*	24/7	0,203	1,16	2,2	3,4
3345 .. 22*	22/7	0,254	1,31	3,5	4,8
3345 .. 20*	20/7	0,320	1,51	5,4	7,0
3345 .. 18*	18/19	0,254	1,78	9,2	11,0
3345 .. 16*	16/19	0,287	1,94	11,8	14,0
3345 .. 14*	14/19	0,361	2,30	18,7	21,0
3345 .. 12*	12/19	0,455	2,76	29,7	32,0

Li6Yvz

item no. tinned copper FEP	AWG	nominal single wire ø mm	approx. outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
3349 .. 28*	28/7	0,127	0,93	0,9	2,0
3349 .. 26*	26/7	0,160	1,03	1,3	2,7
3349 .. 24*	24/7	0,203	1,16	2,2	3,7
3349 .. 22*	22/7	0,254	1,31	3,5	5,2
3349 .. 20*	20/7	0,320	1,51	5,4	7,5
3349 .. 18*	18/19	0,254	1,78	9,2	12,0
3349 .. 16*	16/19	0,287	1,94	11,8	14,0
3349 .. 14*	14/19	0,361	2,30	18,7	22,0
3349 .. 12*	12/19	0,455	2,76	29,7	33,0

Li6Ybl

item no. bare copper FEP	AWG	nominal single wire ø mm	approx. outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
3348 .. 28*	28/7	0,127	0,93	0,9	2,0
3348 .. 26*	26/7	0,160	1,03	1,3	2,7
3348 .. 24*	24/7	0,203	1,16	2,2	3,7
3348 .. 22*	22/7	0,254	1,31	3,5	5,2
3348 .. 20*	20/7	0,320	1,51	5,4	7,5
3348 .. 18*	18/19	0,254	1,78	9,2	12,0
3348 .. 16*	16/19	0,287	1,94	11,8	14,0
3348 .. 14*	14/19	0,361	2,30	18,7	22,0
3348 .. 12*	12/19	0,455	2,76	29,7	33,0

LiPFAvn

item no. nickel-plated copper / PFA	AWG	nominal single wire ø mm	approx. 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.