

ETFE, FEP, PFA Cables

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, 7Y11 acc. to VDE 0207-6 Li6Ybl, Li6Yvz: FEP, 6Y11 acc. to VDE 0207-6 LiPFAvn: PFA, 51Y11 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

FEP + PFA:
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 x 10 ⁸ cJ/kg	FEP: 1 x 10 ⁷ cJ/kg	PFA: 1 x 10 ⁶ cJ/kg
Temperature range <i>fixed laying:</i> <i>flexible application:</i> <i>limited time of use:</i>	ETFE: -90/+135 °C	FEP: -90/+180 °C	PFA: -90/+250 °C
	-55/+135 °C	-55/+180 °C	-55/+250 °C
	+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“		

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Li7Ybl

item no. bare copper ETFE	AWG	nominal single wire ø mm	max. 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	max. 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	max. 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	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.:

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