

FLUOROPOLYMER STRANDED WIRES



CONDUCT – PROTECT – INSULATE



Fluoroplastic stranded wires PTFE

Insulation:

Polytetrafluoroethylene (PTFE), extruded

Conductor::

silver-plated copper (SPC)

Specification:

based on NEMA-HP3

Colors:

black, brown, red, orange, yellow, green, blue, violet, grey, white, pink, transparent

Temperature range:

-65 °C to + 200 °C

Dimensions:

Type: Operating voltage:					ET, thin-walled 250/500V AC U0/U					E, normal-walled 600/1000V AC U0/U					EE, thick-walled 1000/1900V AC U0/U				
AW G	Stran ds	Manager			Master number	with insulation		Weig ht [g/m]	Im ax	Master numbe r	with insulation		Weig ht [g/m]	Im ax	Master number	with insulation		Weig ht [g/m]	Im ax
						Øm in	Øm ax				Øm in	Øm ax				Øm in	Øm ax		
		Num ber x ø	Øno m	cros s secti on		R	[m m]				[mm]	[g/m]				[A]	[m m]		
32	7 x 0,079	0,24	0,04	610, 2	FLET32 07S	0,5 1	0,61	0,80	4	FLE320 7S	0,6 6	0,86	1,2	5	FLEE32 07S	0,9 2	1,12	2,03	5
	19 x 0,051	0,25	0,04	587, 2	FLET32 19S	0,5 1	0,61	0,80		FLE321 9S	0,6 6	0,86	1,3		FLEE32 19S	0,9 2	1,12	2,3	
30	7 x 0,102	0,30	0,06	360, 8	FLET30 07S	0,5 6	0,66	1,0	5	FLE300 7S	0,7 1	0,91	1,5	6	FLEE30 07S	0,9 7	1,17	2,3	7
	19 x 0,064	0,32	0,06	367, 4	FLET30 19S	0,5 6	0,66	1,0		FLE301 9S	0,7 1	0,91	1,5		FLEE30 19S	0,9 7	1,17	2,9	
28	7 x 0,127	0,38	0,09	221, 7	FLET28 07S	0,5 4	0,74	1,5	7	FLE280 7S	0,7 9	0,99	2,0	9	FLEE28 07S	1,0 4	1,24	2,9	9

Values for Imax at 40 °C * wound (not extruded)

Type: Operating voltage:					ET, thin-walled 250/500V AC U0/U					E, normal-walled 600/1000V AC U0/U					EE, thick-walled 1000/1900V AC U0/U				
AW G	Stran ds	Manager			Master number	with insulation		Weig ht [g/m]	Im ax	Master number	with insulation		Weig ht [g/m]	Im ax	Master number	with insulation		Weig ht [g/m]	Im ax
	Num ber x ø	Øno m	cros s secti on	R		Øm in	Øm ax				Øm in	Øm ax				Øm in	Øm ax		
		[mm]	[mm 2]	[Ω/k m]		[m m]	[mm]	[g/m]	[A]		[m m]	[mm]	[g/m]	[A]		[m m]	[mm]	[g/m]	[A]
	19 x 0,079	0,39	0,09	227, 3	FLET28 19S	0,5 4	0,74	1,5		FLE281 9S	0,7 9	0,99	2,0		FLEE281 9S	1,0 4	1,24	3,6	
26	7 x 0,160	0,48	0,14	138, 4	FLET26 07S	0,7 4	0,84	2,1	9	FLE260 7S	0,8 9	1,09	2,77	10	FLEE260 7S	1,1 4	1,35	3,8	11
	19 x 0,102	0,48	0,16	134, 5	FLET26 19S	0,7 4	0,86	2,2		FLE261 9S	0,9 0	1,10	2,8		FLEE261 9S	1,1 4	1,37	4,8	
24	7 x 0,203	0,60	0,22	85,3 0	FLET24 07S	0,8 6	0,96	3,0	12	FLE240 7S	1,0 2	1,22	3,7	13	FLEE240 7S	1,2 7	1,47	5,0	15
	19 x 0,127	0,60	0,24	82,6 7	FLET24 19S	0,8 6	0,99	3,2		FLE241 9S	1,0 3	1,23	3,99		FLEE241 9S	1,2 7	1,50	6,4	
22	7 x 0,254	0,76	0,36	53,1 5	FLET22 07S	1,0 2	1,12	4,4	16	FLE220 7S	1,2 0	1,40	5,5	17	FLEE220 7S	1,4 2	1,63	6,7	20
	19 x 0,160	0,76	0,38	51,5 0	FLET22 19S	1,0 2	1,17	4,7		FLE221 9S	1,2 0	1,40	5,5		FLEE221 9S	1,4 2	1,68	8,9	
20	7 x 0,320	0,96	0,56	33,4 6	FLET20 07S	1,2 2	1,32	6,6	22	FLE200 7S	1,3 7	1,57	7,5	22	FLEE200 7S	1,6 3	1,83	9,5	26
	19 x 0,203	0,96	0,60	31,7 5	FLET20 19S	1,2 2	1,32	7,1		FLE201 9S	1,3 7	1,57	8,1		FLEE201 9S	1,6 3	1,83	13	
18	7 x 0,404	1,21	0,88	21,0 6	---	---	---	---	---	FLE180 7S	1,6 5	1,85	12	30	FLEE180 7S	1,8 8	2,13	14	35
	19 x 0,254	1,20	0,96	19,7 8	---	---	---	---	---	FLE181 9S	1,6 5	1,85	12		FLEE181 9S	1,8 8	2,13	17	
16	19 x 0,287	1,36	1,23	15,5 1	---	---	---	---	---	FLE161 9S	1,9 3	2,13	16	39	FLEE161 9S	2,1 1	2,41	24	46
14	19 x 0,361	1,70	1,87	9,81 0	---	---	---	---	---	FLE141 9S	2,3 2	2,52	23	53	FLEE141 9S	2,4 9	2,90	36	53
12	19 x 0,455	2,14	3,02	6,16 8	---	---	---	---	---	FLE121 9S	2,8 0	3,00	34	70	FLEE121 9S	2,9 7	3,38	35	61
	37 x 0,320	2,17	2,97	6,46 8	---	---	---	---	---	FLE123 7S	2,6 7	3,02	41		FLEE123 7S*	2,9 2	3,32	52	80
10	37 x 0,404	2,80	3,64	4,06 8	---	---	---	---	---	FLE103 7S*	3,3 0	3,50	52	94	FLEE103 7S*	3,4 8	3,89	94	10 8
8	133 x 0,287	4,10	8,60	2,19 2	---	---	---	---	---	---	---	---	---	---	FLEE813 3S*	5,0 5	5,56	155	16 0
6	133 x 0,361	5,15	13,6 1	1,43 0	---	---	---	---	---	---	---	---	---	---	FLEE613 3S*	7,2 6	7,65	155	21 6

Stranded wires PTFE, nickel-plated copper, -65 to + 260 °C

Insulation:

Polytetrafluoroethylene (PTFE), extruded

Conductor::

Nickel-plated copper (NPC)

Specification:

based on NEMA-HP3

Colors:

black, brown, red, orange, yellow, green, blue, violet, grey, white, pink, transparent

Temperature range:

-65 °C to + 260 °C

Dimensions:

Type: Operating voltage:					ET, thin-walled					E, normal-walled					EE, thick-walled				
					250/500V AC U0/U					600/1000V AC U0/U					1000/1900V AC U0/U				
AW G	Stran ds	Manager			Master number	with insulation		Weig ht	Im ax	Master numbe r	with insulation		Weig ht	Im ax	Master number	with insulation		Weig ht	Im ax
	Num ber x ø	Øno m	Cro ss cut	R		Øm in	Øm ax				Ømi n	Øm ax				Øm in	Øm ax		
		[mm]	[mm 2]	[Ω/k m]		[m m]	[mm]	[g/m]	[A]		[mm]	[mm]	[g/m]	[A]		[m m]	[mm]	[g/m]	[A]
32	7 x 0,079	0,24	0,04	610, 2	FLET32 07N	0,5 1	0,61	0,80	4	FLE320 7N	0 ,66	0 ,86	1,2	5	FLEE32 07N	0,9 2	1,12	2,0	5
	19 x 0,051	0,25	0,04	587, 2	FLET32 19N	0,5 1	0,61	0,80		FLE321 9N	0 ,66	0 ,86	1,3		FLEE32 19N	0,9 2	1,12	2,0	
30	7 x 0,102	0,30	0,06	360, 8	FLET30 07N	0,5 6	0,66	1,0	6	FLE300 7N	0 ,71	0 ,91	1,5	6	FLEE30 07N	0,9 7	1,17	2,3	7
	19 x 0,064	0,32	0,06	367, 4	FLET30 19N	0,5 6	0,66	1,0		FLE301 9N	0 ,71	0 ,91	1,5		FLEE30 19N	0,9 7	1,17	2,3	
28	7 x 0,127	0,38	0,09	221, 7	FLET28 07N	0,5 4	0,74	1,5	8	FLE280 7N	0 ,79	0 ,99	2,0	8	FLEE28 07N	1,0 4	1,24	2,9	9
	19 x 0,079	0,39	0,09	227, 3	FLET28 19N	0,5 4	0,74	1,5		FLE281 9N	0 ,79	0 ,99	2,0		FLEE28 19N	1,0 4	1,24	2	
26	7 x 0,160	0,48	0,14	138, 4	FLET26 07N	0,7 4	0,84	2,1	10	FLE260 7N	0 ,89	1 ,09	2,7	11	FLEE26 07N	1,1 4	1,35	3,6	11
	19 x 0,102	0,48	0,16	134, 5	FLET26 19N	0,7 4	0,86	2,2		FLE261 9N	0 ,90	1 ,10	2,8		FLEE26 19N	1,1 4	1,37	3,8	
24	7 x 0,203	0,60	0,22	85,3 0	FLET24 07N	0,8 6	0,96	3,0	14	FLE240 7N	1,02	1 ,22	3,7	15	FLEE24 07N	1,2 7	1,47	4,8	15
	19 x 0,127	0,60	0,24	82,6 7	FLET24 19N	0,8 6	0,99	3,2		FLE241 9N	1,03	1 ,23	3,99		FLEE24 19N	1,2 7	1,50	5,0	
22	7 x 0,254	0,76	0,36	53,1 5	FLET22 07N	1,0 2	1,12	4,4	19	FLE220 7N	1,20	1 ,37	5,2	19	FLEE22 07N	1,4 2	1,63	6,47	20

Type: Operating voltage:					ET, thin-walled					E, normal-walled					EE, thick-walled				
					250/500V AC U0/U					600/1000V AC U0/U					1000/1900V AC U0/U				
AW G	Stran ds	Manager			Master number	with insulation		Weig ht	Im ax	Master number	with insulation		Weig ht	Im ax	Master number	with insulation		Weig ht	Im ax
	Num ber x ø	Øno m	Cro ss cut	R		Øm in	Øm ax				Ømi n]	Øm ax				Øm in	Øm ax		
		[mm]	[mm 2]	[Ω/k m]		[m m]	[mm]				[g/m]	[A]				[mm]	[mm]		
	19 x 0,160	0,76	0,38	51,5 0	FLET22 19N	1,0 2	1,17	4,7		FLE221 9N	1,20	1 ,40	5,59		FLEE221 9N	1,4 2	1,68	6,7	
20	7 x 0,320	0,96	0,56	33,4 6	FLET20 07N	1,2 2	1,32	6,6	25	FLE200 7N	1,37	1 ,57	7,5	26	FLEE200 7N	1,6 3	1,83	8,9	26
	19 x 0,203	0,96	0,60	31,7 5	FLET20 19N	1,2 2	1,32	7,1		FLE201 9N	1,37	1,57	8,1		FLEE201 9N	1,6 3	1,83	9,5	
18	7 x 0,404	1,21	0,88	21,0 6	---	---	---	---	---	FLE180 7N	1,65	1 ,85	12	34	FLEE180 7N	1,8 8	2,13	13	35
	19 x 0,254	1,20	0,96	19,7 8	---	---	---	---	---	FLE181 9N	1,65	1 ,85	12		FLEE181 9N	1,8 8	2,13	14	
16	19 x 0,287	1,36	1,23	15,5 1	---	---	---	---	---	FLE161 9N	1,93	2 ,13	16	45	FLEE161 9N	2,1 1	2,41	17	46
14	19 x 0,361	1,70	1,87	9,81 0	---	---	---	---	---	FLE141 9N	2,32	2 ,52	23	59	FLEE141 9N	2,4 9	2,90	24	
12	19 x 0,455	2,14	3,02	6,16 8	---	---	---	---	---	FLE121 9N	2,80	3 ,00	34	79	FLEE121 9N	2,9 7	3,38	36	61
	37 x 0,320	2,17	2,97	6,46 8	---	---	---	---	---	FLE123 7N	2,67	3 ,02	41		FLEE123 7N*	2,9 2	3,32	35	80
10	37 x 0,404	2,80	3,64	4,06 8	---	---	---	---	---	FLE103 7N*	3,30	3,50	52	10 6	FLEE103 7N*	3,4 8	3,89	52	10 8
8	133 x 0,287	4,10	8,60	2,19 2	---	---	---	---	---	---	---	---	---	---	FLEE813 3N*	5,0 5	5,56	94	16 0
6	133 x 0,361	5,15	13,6 1	1,43 0	---	---	---	---	---	---	---	---	---	---	FLEE613 3N*	7,2 6	7,65	155	21 6

Values for Imax at 40 °C * wound (not extruded)

Stranded wires PTFE, silver-plated copper, ultra thin-walled

Type:

UT, extremely thin-walled

Insulation:

Polytetrafluoroethylene (PTFE)

Colors:

black, brown, red, orange, yellow, green, blue, violet, grey u, white, pink transparent

Specification: internal

Conductor:

AWG 36 - 30: silver-plated, high-strength copper alloy (HSA / AWG 28: silver-plated copper (SPC)

Temperature:

- 65 to 200 °C

Operating voltage:

< 50 V This cable is primarily suitable for applications where space is at a premium.

Dimensions:

AWG	Master number	Strands	Conductor			with insulation			conductor weight	Imax
		Quantity x Ø	Ømax	cross section	R	Ønom	Ømin	Ømax		
		[mm]	[mm]	[mm ²]	[Ω/km]	[mm]	[mm]	[mm]		
36	FLUT3607H	7 x 0,050	0,15	0,01	1545	0,32	0,29	0,34	0,30	2
34	FLUT3407H	7 x 0,060	0,19	0,02	979,0	0,36	0,33	0,38	0,40	3
32	FLUT3207H	7 x 0,080	0,24	0,03	621,0	0,42	0,39	0,44	0,55	3
32	FLUT3219H	19 x 0,050	0,25	0,04	571,0	0,42	0,39	0,44	0,65	
30	FLUT3007H	7 x 0,102	0,30	0,05	373,0	0,49	0,46	0,51	0,857	5
30	FLUT3019H	19 x 0,060	0,32	0,05	360,0	0,50	0,46	0,51	0,90	
28	FLUT2807S	7 x 0,127	0,38	0,09	210,0	0,56	0,53	0,58	1,2	6