

WINDING WIRES AND HIGH FREQUENCY LITZ WIRES / HIGH FREQUENCY LITZ WIRES



These HF stranded wires are made from enamel-insulated wire by twisting several cores together. This largely suppresses the skin effect that occurs at higher frequencies.

HF stranded wires, double insulated with FEP or ETFE

FEP		ETFE		Applications > Solar systems > Ballasts > Hearing appliances > Identification systems > Inductive heating elements > Power supplies > Proximity switch > Coils > Transformers > Ultrasonic generator				
Conductor								
Nema MW 79		Nema MW 79						
Temperatur class								
155 °C								
Tensile strength								
20'000 N/mm2		45'000 N/mm2						
Operating voltage								
600 V		UL: 600 V VDE: 1000 V						
Insulation								
FEP		DuPont ETFE Tefzel®						
UL approvals								
UL60950-1 (Edition 2), Appendix U System approval UL1446 RXT-2, Class F								
Item number	Item number	Equiv . AWG	Conducto r Ø [mm]	Cross sectio	Numbe r of wires	AW G of	Oute r Ø [mm]	Recommende d frequency range

				n [mm ²]		the wires		
HFDXXL825/44FXX -3	HFDXXL825/44TXX -3	13	2,14	1,67	825	44	2,45	400 - 850 kHz
HFDXXL120/38FXX -2	HFDXXL120/38TXX -2	15	1,44	0,97	120	38	1,64	50 - 100 kHz
HFDXXL120/38FXX -3	HFDXXL120/38TXX -3	15	1,44	0,97	120	38	1,75	50 - 100 kHz
HFDXXL550/44FXX -3	HFDXXL550/44TXX -3	16	1,75	1,11	550	44	2,06	400 - 850 kHz
HFDXXL100/38FXX -2	HFDXXL100/38TXX -2	16	1,31	0,81	100	38	1,52	50 - 100 kHz
HFDXXL100/38FXX -3	HFDXXL100/38TXX -3	16	1,31	0,81	100	38	1,62	50 - 100 kHz
HFDXXL07/28FXX- 2	HFDXXL07/28TXX- 2	18	1,05	0,56	7	28	1,25	60 Hz -1 kHz
HFDXXL07/28FXX- 3	HFDXXL07/28TXX- 3	18	1,05	0,56	7	28	1,35	60 Hz -1 kHz
HFDXXL66/38FXX- 2	HFDXXL66/38TXX- 2	18	1,07	0,54	66	38	1,27	50 - 100 kHz
HFDXXL66/38FXX- 3	HFDXXL66/38TXX- 3	18	1,07	0,54	66	38	1,37	50 - 100 kHz
HFDXXL360/44FXX -2	HFDXXL360/44TXX -2	18	1,46	0,73	360	44	1,62	400 - 850 kHz
HFDXXL360/44FXX -3	HFDXXL360/44TXX -3	18	1,46	0,73	360	44	1,72	400 - 850 kHz
HFDXXL20/34FXX- 2	HFDXXL20/34TXX- 2	19	0,91	0,40	20	34	1,12	20 kHz
HFDXXL20/34FXX- 3	HFDXXL20/34TXX- 3	19	0,91	0,40	20	34	1,22	20 kHz
HFDXXL07/30FXX- 2	HFDXXL07/30TXX- 2	20	0,84	0,35	7	30	1,04	1-10 kHz
HFDXXL07/30FXX- 3	HFDXXL07/30TXX- 3	20	0,84	0,35	7	30	1,14	1 -10 kHz
HFDXXL19/36FXX- 2	HFDXXL19/36TXX- 2	21.5	0,71	0,24	19	36	0,92	20 - 50 kHz
HFDXXL19/36FXX- 3	HFDXXL19/36TXX- 3	21.5	0,71	0,24	19	36	1,02	20 - 50 kHz
HFDXXL07/32FXX- 2	HFDXXL07/32TXX- 2	21.5	0,68	0,23	7	32	0,88	10 kHz
HFDXXL07/32FXX- 3	HFDXXL07/32TXX- 3	21.5	0,68	0,23	7	32	0,98	10 kHz

HFDXXL40/40FXX- 2	HFDXXL40/40TXX- 2	22	0,64	0,20	40	40	0,85	100 - 200 kHz
HFDXXL230/44FXX- -2	HFDXXL230/44TXX- -2	22	1,13	0,47	230	44	1,33	400 - 850 kHz
HFDXXL05/32FXX- 2	HFDXXL05/32TXX- 2	23	0,57	0,16	5	32	0,78	10 kHz

Notes:

The dimensions listed are only a small selection. As all strands have tolerances in their structure, all dimensions are approximate values. For other dimensions or special tolerance requirements, please send us a detailed request.