

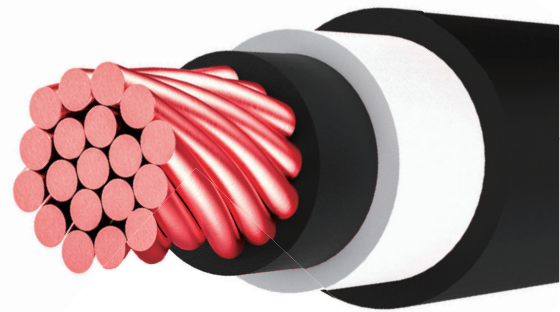
Litz Wires

LITZ WIRE IS MADE OF SEVERAL STRANDS OF ENAMELLED MAGNET WIRE THAT ARE BUNCHED OR STRANDED TOGETHER. It is used where losses caused by the skin-and proximity effect on a single wire are too high due to the operating frequency. At the same time the operating temperature is reduced by its use. Litz wire has much greater mechanical flexibility than a single wire with the same cross-section.

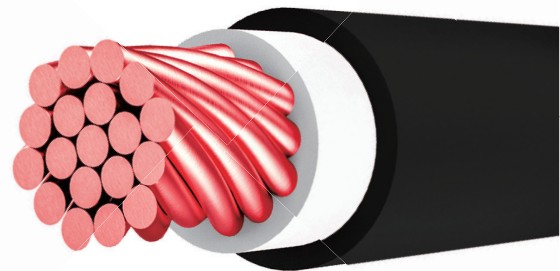
***PLEASE NOTE:** LITZ CONDUCTOR DIAMETERS CAN VARY BY SUPPLIER, PLEASE REQUEST A SPECIFICATION SHEET TO ENSURE THE DIAMETER WILL MEET YOUR APPLICATION REQUIREMENT(S). Litz constructions listed in this catalog are a small sample of the products offered. Contact the Sales Department for additional constructions.*

***NOTE:** The type of NEMA Magnet wire used in the litz construction will be listed in parentheses at the end of the part number. Example TXXL550/44FXXX-2(MWXX)*

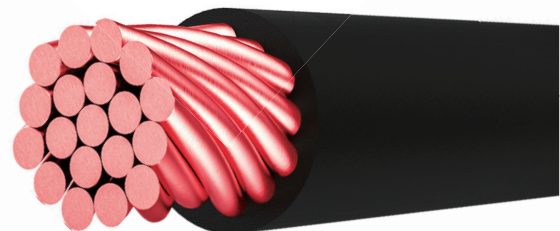
Triple Insulated



Double Insulated

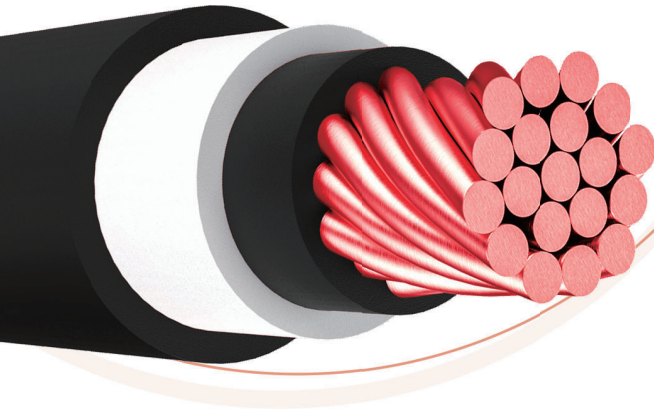


Single Insulated



Triple Insulated

Litz Wire FEP INSULATION



Product Construction:

SIZE RANGE: Sizes listed are a small sample of the litz products offered. Contact the Sales Department.

CONDUCTOR: NEMA MW 79-C | NEMA MW 80-C

INSULATIONS: FEP

RATING: TEMPERATURE: 155°C | VOLTAGE: 1000 Vpk

APPLICATIONS: High frequency applications. See litz wire introduction page.

COMPLIANCES:

UL OBJT2 File No. E206198

UL/IEC 60950-1 (Ed. 2), Annex U

IEC 61010-1 (Ed. 3)

VDE License Nr. 6715: Class F

SYSTEM APPROVALS: UL 1446

- RXT-2 (Class F)
- TCA (Class F)
- Other systems available upon request

RoHS Compliant

TENSILE STRENGTH: 3000 psi

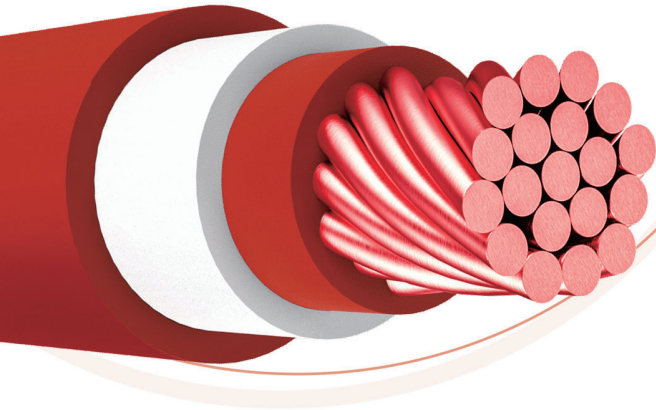
BREAKDOWN: Please request specification sheet

PART NUMBER	EQUIV. AWG	CORE O.D. (in)	CIR. MILS	NO. STRANDS	AWG OF STRANDS	NOMINAL O.D.(in)	SUGGESTED OPERATING FREQUENCY
TXXL350/38FXXX-2(MWXX)	13	0.1041	5600	350	38	0.1161	50-100 kHz
TXXL350/38FXXX-3(MWXX)	13	0.1041	5600	350	38	0.1221	50-100 kHz
TXXL825/44FXXX-2(MWXX)	15	0.0817	3300	825	44	0.0937	400-850 kHz
TXXL825/44FXXX-3(MWXX)	15	0.0817	3300	825	44	0.0997	400-850 kHz
TXXL120/38FXXX-2(MWXX)	18	0.0569	1920	120	38	0.0689	50-100 kHz
TXXL120/38FXXX-3(MWXX)	18	0.0569	1920	120	38	0.0749	50-100 kHz
TXXL550/44FXXX-2(MWXX)	17	0.0623	2200	550	44	0.0743	400-850 kHz
TXXL550/44FXXX-3(MWXX)	17	0.0623	2200	550	44	0.0803	400-850 kHz
TXXL66/38FXXX-2(MWXX)	20	0.0422	1056	66	38	0.0542	50-100 kHz
TXXL66/38FXXX-3(MWXX)	20	0.0422	1056	66	38	0.0602	50-100 kHz
TXXL108/40FXXX-2(MWXX)	20	0.0420	1038	108	40	0.0540	100-200 kHz
TXXL108/40FXXX-3(MWXX)	20	0.0420	1038	108	40	0.0600	100-200 kHz
TXXL360/44FXXX-2(MWXX)	19	0.0504	1440	360	44	0.0624	400-850 kHz
TXXL360/44FXXX-3(MWXX)	19	0.0504	1440	360	44	0.0684	400-850 kHz
TXXL07/28FXXX-2(MWXX)	20	0.0411	1111	7	28	0.0531	60 Hz - 1 kHz
TXXL07/28FXXX-3(MWXX)	20	0.0411	1111	7	28	0.0591	60 Hz - 1 kHz
TXXL19/36FXXX-2(MWXX)	24	0.0280	475	19	36	0.0400	20-50 kHz
TXXL19/36FXXX-3(MWXX)	24	0.0280	475	19	36	0.0460	20-50 kHz
TXXL230/44FXXX-2(MWXX)	21	0.0403	920	230	44	0.0523	400-850 kHz
TXXL230/44FXXX-3(MWXX)	21	0.0403	920	230	44	0.0583	400-850 kHz
TXXL19/34FXXX-2(MWXX)	22	0.0350	754	19	34	0.0470	20 kHz
TXXL19/34FXXX-3(MWXX)	22	0.0350	754	19	34	0.0530	20 kHz
TXXL40/40FXXX-2(MWXX)	25	0.0256	384	40	40	0.0376	100-200 kHz
TXXL07/32FXXX-2(MWXX)	24	0.0264	448	7	32	0.0384	10 kHz

PLEASE NOTE: LITZ CONDUCTOR DIAMETERS CAN VARY BY SUPPLIER, PLEASE REQUEST A SPECIFICATION SHEET TO ENSURE THE DIAMETER WILL MEET YOUR APPLICATION REQUIREMENT(S). Due to fluctuations inherent in litz wire construction, all sizes are approximate. Please advise our Sales Department of any special requirements or tolerances.

Triple Insulated

Litz Wire
ETFE INSULATION



Product Construction:

SIZE RANGE: Sizes listed are a small sample of the litz products offered. Contact the Sales Department.

CONDUCTOR: NEMA MW 79-C | NEMA MW 80-C

INSULATIONS: Chemours Tefzel® ETFE

RATING:

TEMPERATURE: 155°C

VOLTAGE: UL: 1500 Vpk for electronic equipment

UL: 707 Vrms for medical equipment

VDE: 1000 Vrms (IEC 61558-1, IEC 61558-2-16)

VDE: 700 Vpk for medical equipment

VDE: 1000 Vpk for other certifications

APPLICATIONS: High frequency applications. See litz wire introduction page.

COMPLIANCES:

UL OBJT2 File No. E206198

UL/IEC 60950-1 (Ed. 2), Annex U

UL 60601-1 (Ed. 3) (40 AWG - 18 AWG)

IEC 61558-1, IEC 61558-2-16, 60601-1 (Ed.3), 61010-1 (Ed. 3)

VDE License Nr. 136743: Class F

SYSTEM APPROVALS: UL 1446

- RXT-2 (Class F)

- TCA (Class F)

- Other systems available upon request

RoHS Compliant

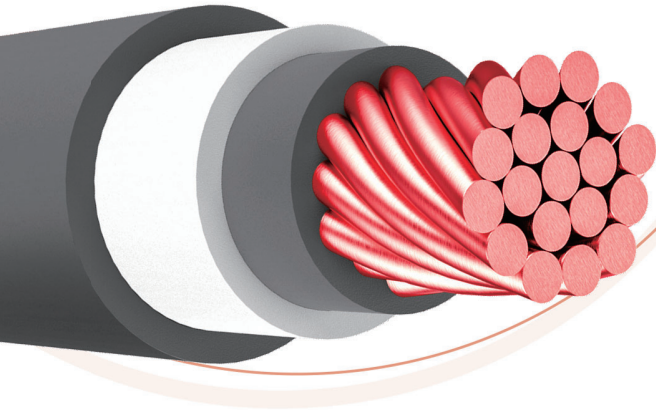
TENSILE STRENGTH: 6500 psi

PART NUMBER	EQUIV. AWG	CORE O.D. (in)	CIR. MILS	NO. STRANDS	AWG OF STRANDS	NOMINAL O.D.(in)	SUGGESTED OPERATING FREQUENCY
TXXL180/38TXXX-2(MWXX)	16	0.0746	2880	180	38	0.0866	50 - 100 khz
TXXL180/38TXXX-3(MWXX)	16	0.0746	2880	180	38	0.0926	50 - 100 khz
TXXL15/30TXXX-1.5(MWXX)	19	0.0488	1500	15	30	0.0578	1 - 10 khz
TXXL15/30TXXX-2(MWXX)	19	0.0488	1500	15	30	0.0608	1 - 10 khz
TXXL15/30TXXX-3(MWXX)	19	0.0488	1500	15	30	0.0668	1 - 10 khz
TXXL360/44TXXX-2(MWXX)	19	0.0504	1440	360	44	0.0624	400 - 850 khz
TXXL360/44TXXX-3(MWXX)	19	0.0504	1440	360	44	0.0684	400 - 850 khz
TXXL19/36TXXX-2(MWXX)	24	0.0280	475	19	36	0.0400	20 - 50 khz
TXXL19/36TXXX-3(MWXX)	24	0.0280	475	19	36	0.0460	20 - 50 khz
TXXL35/38TXXX-2(MWXX)	23	0.0307	560	35	38	0.0427	50 - 100 khz
TXXL35/38TXXX-3(MWXX)	23	0.0307	560	35	38	0.0487	50 - 100 khz
TXXL07/30TXXX-1.5(MWXX)	22	0.0327	700	7	30	0.0417	1 - 10 khz
TXXL07/30TXXX-2(MWXX)	22	0.0327	700	7	30	0.0447	1 - 10 khz
TXXL230/44TXXX-2(MWXX)	21	0.0403	920	230	44	0.0523	400 - 850 khz
TXXL230/44TXXX-3(MWXX)	21	0.0403	920	230	44	0.0583	400 - 850 khz
TXXL40/40TXXX-1.5(MWXX)	25	0.0256	384	40	40	0.0346	100 - 200 khz
TXXL40/40TXXX-2(MWXX)	25	0.0256	384	40	40	0.0376	100 - 200 khz
TXXL07/32TXXX-1.5(MWXX)	24	0.0264	448	7	32	0.0354	10 khz
TXXL07/32TXXX-2(MWXX)	24	0.0264	448	7	32	0.0384	10 khz
TXXL19/40TXXX-1.5(MWXX)	28	0.0175	183	19	40	0.0265	100 - 200 khz
TXXL19/40TXXX-2(MWXX)	28	0.0175	183	19	40	0.0295	100 - 200 khz
TXXL05/32TXXX-1.5(MWXX)	25	0.0238	320	5	32	0.0328	10 khz
TXXL05/32TXXX-2(MWXX)	25	0.0238	320	5	32	0.0358	10 khz
TXXL16/44TXXX-1.5(MWXX)	32	0.0108	64	16	44	0.0198	400 - 850 khz

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Triple Insulated

Litz Wire TCA3



Product Construction:

SIZE RANGE: Sizes listed are a small sample of the litz products offered. Contact the Sales Department.

CONDUCTOR: NEMA MW 79-C | NEMA MW 80-C

INSULATIONS: Modified ETFE

RATING:

TEMPERATURE: 155°C

VOLTAGE: UL: 1500 Vpk for electronic equipment

UL: 707 Vrms for medical equipment

VDE: 1000 Vpk

APPLICATIONS: High frequency applications. See litz wire introduction page.

COMPLIANCES:

UL OBJT2 File No. E206198

UL/IEC 60950-1 (Ed. 2), Annex U

UL 60601-1 (Ed. 3) (40 AWG - 18 AWG)

IEC 61558-1, 60601-1 (Ed. 3), 61010-1 (Ed. 3)

VDE License Nr. 40000223: Class F

SYSTEM APPROVALS: UL 1446

- RXT-2 (Class F)

- TCA (Class F)

- Other systems available upon request

RoHS Compliant

TENSILE STRENGTH: 6500 psi

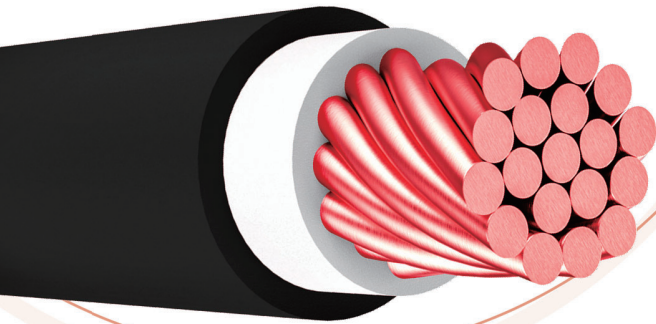
BREAKDOWN: Please request specification sheet

PART NUMBER	EQUIV. AWG	CORE O.D. (in)	CIR. MILS	NO. STRANDS	AWG OF STRANDS	NOMINAL O.D.(in)	SUGGESTED OPERATING FREQUENCY
TCA3 7/30 LITZ (MWXX)	22	0.0327	700	7	30	0.0417	1-10 kHz
TCA3 40/40 LITZ (MWXX)	25	0.0256	384	40	40	0.0346	100-200 kHz
TCA3 7/32 LITZ (MWXX)	24	0.0264	448	7	32	0.0354	10 kHz
TCA3 19/40 LITZ (MWXX)	28	0.0175	183	19	40	0.0265	100-200 kHz
TCA3 5/32 LITZ (MWXX)	25	0.0238	320	5	32	0.0328	10 kHz
TCA3 16/44 LITZ (MWXX)	32	0.0108	64	16	44	0.0198	400-850 kHz
TCA3 150/44 LITZ (MWXX)	23	0.0348	600	150	44	0.0438	400-850 kHz
TCA3 09/35 LITZ (MWXX)	26	0.0215	282	9	35	0.0305	20 kHz
TCA3 135/38 LITZ (MWXX)	17	0.0604	2160	135	38	0.0694	50-100 kHz
TCA3 19/36 LITZ (MWXX)	24	0.0280	475	19	36	0.0370	20-50 kHz
TCA3 25/38 LITZ (MWXX)	24	0.0260	400	25	38	0.0350	50-100 kHz
TCA3 35/38 LITZ (MWXX)	23	0.0307	560	35	38	0.0397	50-100 kHz
TCA3 7/35 LITZ (MWXX)	27	0.0189	220	7	35	0.0279	20 kHz

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Double Insulated

Litz Wire FEP INSULATION



Product Construction:

SIZE RANGE: Sizes listed are a small sample of the litz products offered. Contact the Sales Department.

CONDUCTOR: NEMA MW 79-C | NEMA MW 80-C

INSULATIONS: FEP

RATING: TEMPERATURE: 155°C | VOLTAGE: 600 Vpk

APPLICATIONS: High frequency applications. See litz wire introduction page.

COMPLIANCES:

UL OBJT2 File No. E206198

UL/IEC 60950-1 (Ed. 2), Annex U

VDE License Nr. 6715: Class F

SYSTEM APPROVALS: UL 1446

- RXT-2 (Class F)
- TCA (Class F)
- Other systems available upon request

RoHS Compliant

TENSILE STRENGTH: 3000 psi

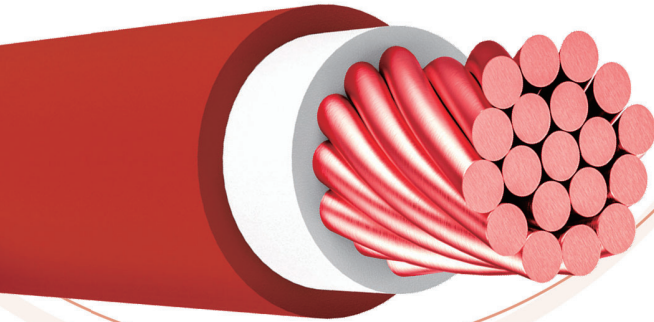
BREAKDOWN: Please request specification sheet

PART NUMBER	EQUIV. AWG	CORE O.D. (in)	CIR. MILS	NO. STRANDS	AWG OF STRANDS	NOMINAL O.D.(in)	SUGGESTED OPERATING FREQUENCY
DXXL825/44FXX-3(MWXX)	15	0.0817	3300	825	44	0.0937	400 - 850 khz
DXXL120/38FXX-2(MWXX)	18	0.0569	1920	120	38	0.0649	50 - 100 khz
DXXL120/38FXX-3(MWXX)	18	0.0569	1920	120	38	0.0689	50 - 100 khz
DXXL550/44FXX-2(MWXX)	17	0.0623	2200	550	44	0.0703	400 - 850 khz
DXXL550/44FXX-3(MWXX)	17	0.0623	2200	550	44	0.0743	400 - 850 khz
DXXL100/38FXX-2(MWXX)	18	0.0520	1600	100	38	0.0600	50 - 100 khz
DXXL100/38FXX-3(MWXX)	18	0.0520	1600	100	38	0.0640	50 - 100 khz
DXXL07/28FXX-2(MWXX)	20	0.0411	1111	7	28	0.0491	60 hz - 1 khz
DXXL07/28FXX-3(MWXX)	20	0.0411	1111	7	28	0.0531	60 hz - 1 khz
DXXL66/38FXX-2(MWXX)	20	0.0422	1056	66	38	0.0502	50 - 100 khz
DXXL66/38FXX-3(MWXX)	20	0.0422	1056	66	38	0.0542	50 - 100 khz
DXXL360/44FXX-2(MWXX)	19	0.0504	1440	360	44	0.0584	400 - 850 khz
DXXL360/44FXX-3(MWXX)	19	0.0504	1440	360	44	0.0624	400 - 850 khz
DXXL20/34FXX-2(MWXX)	22	0.0372	794	20	34	0.0452	20 khz
DXXL20/34FXX-3(MWXX)	22	0.0372	794	20	34	0.0492	20 khz
DXXL07/30FXX-2(MWXX)	22	0.0327	700	7	30	0.0407	1 - 10 khz
DXXL07/30FXX-3(MWXX)	22	0.0327	700	7	30	0.0447	1 - 10 khz
DXXL19/36FXX-2(MWXX)	24	0.0280	475	19	36	0.0360	20 - 50 khz
DXXL19/36FXX-3(MWXX)	24	0.0280	475	19	36	0.0400	20 - 50 khz
DXXL07/32FXX-2(MWXX)	24	0.0264	448	7	32	0.0344	10 khz
DXXL07/32FXX-3(MWXX)	24	0.0264	448	7	32	0.0384	10 khz
DXXL40/40FXX-2(MWXX)	25	0.0256	384	40	40	0.0336	100 - 200 khz
DXXL230/44FXX-2(MWXX)	21	0.0403	920	230	44	0.0483	400 - 850 khz

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Double Insulated

Litz Wire ETFE INSULATION



Product Construction:

SIZE RANGE: Sizes listed are a small sample of the litz products offered. Contact the Sales Department.

CONDUCTOR: NEMA MW 79-C | NEMA MW 80-C

INSULATIONS: Chemours Tefzel® ETFE

RATING: TEMPERATURE: 155°C | VOLTAGE: UL: 600 Vpk

APPLICATIONS: High frequency applications. See litz wire introduction page.

COMPLIANCES:

UL OBJT2 File No. E206198

UL/IEC 60950-1 (Ed. 2), Annex U

UL 60601-1 (Ed. 3), IEC 61558-2-16

VDE License Nr. 136743: Class F

SYSTEM APPROVALS: UL 1446

- RXT-2 (Class F)
- TCA (Class F)
- Other systems available upon request

RoHS Compliant

TENSILE STRENGTH: 6500 psi

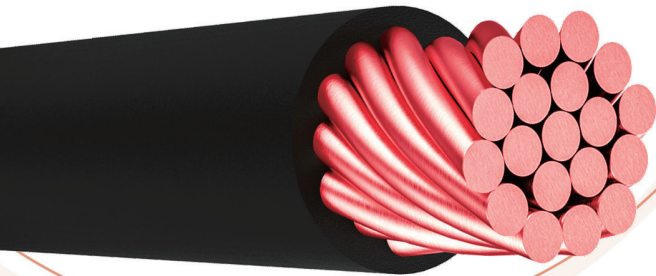
BREAKDOWN: Please request specification sheet

PART NUMBER	EQUIV. AWG	CORE O.D. (in)	CIR. MILS	NO. STRANDS	AWG OF STRANDS	NOMINAL O.D.(in)	SUGGESTED OPERATING FREQUENCY
DXXL825/44TXX-3(MWXX)	15	0.0817	3300	825	44	0.0937	400 - 850 khz
DXXL120/38TXX-2(MWXX)	18	0.0569	1920	120	38	0.0649	50 - 100 khz
DXXL120/38TXX-3(MWXX)	18	0.0569	1920	120	38	0.0689	50 - 100 khz
DXXL550/44TXX-2(MWXX)	17	0.0623	2200	550	44	0.0703	400 - 850 khz
DXXL550/44TXX-3(MWXX)	17	0.0623	2200	550	44	0.0743	400 - 850 khz
DXXL100/38TXX-2(MWXX)	18	0.0520	1600	100	38	0.0600	50 - 100 khz
DXXL100/38TXX-3(MWXX)	18	0.0520	1600	100	38	0.0640	50 - 100 khz
DXXL07/28TXX-2(MWXX)	20	0.0411	1111	7	28	0.0491	60 hz - 1 khz
DXXL07/28TXX-3(MWXX)	20	0.0411	1111	7	28	0.0531	60 hz - 1 khz
DXXL66/38TXX-2(MWXX)	20	0.0422	1056	66	38	0.0502	50 - 100 khz
DXXL66/38TXX-3(MWXX)	20	0.0422	1056	66	38	0.0542	50 - 100 khz
DXXL360/44TXX-2(MWXX)	19	0.0504	1440	360	44	0.0584	400 - 850 khz
DXXL360/44TXX-3(MWXX)	19	0.0504	1440	360	44	0.0624	400 - 850 khz
DXXL20/34TXX-2(MWXX)	22	0.0372	794	20	34	0.0452	20 khz
DXXL20/34TXX-3(MWXX)	22	0.0372	794	20	34	0.0492	20 khz
DXXL07/30TXX-2(MWXX)	22	0.0327	700	7	30	0.0407	1 - 10 khz
DXXL07/30TXX-3(MWXX)	22	0.0327	700	7	30	0.0447	1 - 10 khz
DXXL19/36TXX-2(MWXX)	24	0.0280	475	19	36	0.0360	20 - 50 khz
DXXL19/36TXX-3(MWXX)	24	0.0280	475	19	36	0.0400	20 - 50 khz
DXXL07/32TXX-2(MWXX)	24	0.0264	448	7	32	0.0344	10 khz
DXXL07/32TXX-3(MWXX)	24	0.0264	448	7	32	0.0384	10 khz
DXXL40/40TXX-2(MWXX)	25	0.0256	384	40	40	0.0336	100 - 200 khz
DXXL230/44TXX-2(MWXX)	21	0.0403	920	230	44	0.0483	400 - 850 khz
DXXL05/32TXX-2(MWXX)	25	0.0238	320	5	32	0.0318	10 khz

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Single Insulated

Litz Wire FEP INSULATION



Product Construction:

SIZE RANGE: Sizes listed are a small sample of the litz products offered. Contact the Sales Department.

CONDUCTOR: NEMA MW 79-C | NEMA MW 80-C

INSULATIONS: FEP

RATING: TEMPERATURE: 155°C | VOLTAGE: 600 Vpk

APPLICATIONS: High frequency applications. See litz wire introduction page.

COMPLIANCES:

UL OBJT2 File No. E260198

UL 60950-1 (ed. 2), Annex U

SYSTEM APPROVALS: UL 1446

- RXT-2 (Class F)
- TCA (Class F)
- Other systems available upon request

RoHS Compliant

TENSILE STRENGTH: 3000 psi

BREAKDOWN: Please request specification sheet

PART NUMBER	EQUIV. AWG	CORE O.D. (in)	CIR. MILS	NO. STRANDS	AWG OF STRANDS	NOMINAL O.D.(in)	SUGGESTED OPERATING FREQUENCY
SXXL825/44FX-3(MWXX)	15	0.0817	3300	825	44	0.0877	400-850 khz
SXXL120/38FX-3(MWXX)	18	0.0569	1920	120	38	0.0629	50-100 khz
SXXL550/44FX-3(MWXX)	17	0.0623	2200	550	44	0.0683	400-850 khz
SXXL100/38FX-3(MWXX)	18	0.0520	1600	100	38	0.0580	50-100 khz
SXXL07/28FX-2(MWXX)	20	0.0411	1111	7	28	0.0451	60hz-1 khz
SXXL07/28FX-3(MWXX)	20	0.0411	1111	7	28	0.0471	60hz-1 khz
SXXL66/38FX-2(MWXX)	20	0.0422	1056	66	38	0.0462	50-100 khz
SXXL66/38FX-3(MWXX)	20	0.0422	1056	66	38	0.0482	50-100 khz
SXXL360/44FX-3(MWXX)	19	0.0504	1440	360	44	0.0564	400-850 khz
SXXL20/34FX-2(MWXX)	22	0.0372	794	2	34	0.0412	20 khz
SXXL20/34FX-3(MWXX)	22	0.0372	794	2	34	0.0432	20 khz
SXXL07/30FX-2(MWXX)	22	0.0327	700	7	30	0.0367	1-10 khz
SXXL07/30FX-3(MWXX)	22	0.0327	700	7	30	0.0387	1-10 khz
SXXL19/36FX-2(MWXX)	24	0.0280	475	19	36	0.0320	20-50 khz
SXXL19/36FX-3(MWXX)	24	0.0280	475	1	36	0.0340	20-50 khz
SXXL07/32FX-2(MWXX)	24	0.0264	448	7	32	0.0304	10 khz
SXXL07/32FX-3(MWXX)	24	0.0264	448	7	32	0.0324	10 khz
SXXL40/40FX-2(MWXX)	25	0.0256	384	40	40	0.0296	100-200 khz
SXXL230/44FX-3(MWXX)	21	0.0403	920	230	44	0.0463	400-850 khz

PLEASE NOTE: LITZ CONDUCTOR DIAMETERS CAN VARY BY SUPPLIER, PLEASE REQUEST A SPECIFICATION SHEET TO ENSURE THE DIAMETER WILL MEET YOUR APPLICATION REQUIREMENT(S). Due to fluctuations inherent in litz wire construction, all sizes are approximate. Please advise our Sales Department of any special requirements or tolerances.