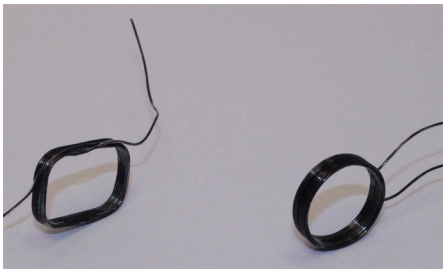
Coilbond™ Self bonding Insulated Winding Wires

Coilbond™ Self bonding Winding Wires, insulated with modified Fluoropolymer

ETFE is a Fluoropolymer compound with excellent electrical properties, heat resistance, chemical resistance, and abrasion resistance. Commonly used in winding wires, UL AWM wires, and medical applications.



Self-Bonding Overcoat Information:

The Self-Bonding Overcoat is a proprietary material intended for bonding the product together and it should not be considered an additional layer of insulation nor should it be used for any additional electrical or mechanical properties.

Conductor:	Tin Plated Copper, Solid or Stranded ASTM B-33/ASTM B-286								
Temperature Rating:	155° C								
Insulation Information:	modified ETFE with Proprietary Self-Bonding Overcoat								
Thickness Overcoat:	0,038 mm								
Thermal:	Continuous Operating Temperature,150°C								
Bonding Temp. Range:	182°C - 276°C								
Tensile Strength:	45 N/mm² (6500 psi)								
UV Resistance:	Excellent								
Underground Resistance:	Excellent								
UL Flammability Rating:	UL94 V-0								
Elongation:	150 -300 %								
Chemical Resistance:	Excellent								
Long Term Stability:	Excellent								
Dielectric Constant:	2,6								
Thickness / layer:	0,025 mm								
Abrasion Resistance:	Excellent								
Water Resistance:	Excellent								
Approvals:	UL OBJT2 File No. E206198 UL/IEC60950-1 (ed.2), Annex U. UL 2601; RoHS compliant								
Number of layers:	1			2			3		
Operating voltage:	UL: 600 V			UL: 600 V			UL: 707 V (medical), 1500 V(electronic)		
Breakdown voltage:	approx. 2000 V			approx. 4500 V			approx. 7000 V		
Tolerances :									
	AWG	---	---	18 - 24	+ 0,038 / - 0,025mm		18 - 24	+ 0,038 / - 0,025 mm	
	AWG	22 - 40	+ 0,025 / - 0,0125 mm	25 - 40	+ 0,025 / - 0,025 mm		25 - 40	+ 0,025 / - 0,025 mm	
Dimensions:									

	with 1 layer			with 2 layers			with 3 layers		
AWG	**Type**	conductor [mm]	outer Ø* [mm]	**Type**	conductor [mm]	outer Ø* [mm]	**Type**	conductor [mm]	outer Ø* [mm]
18	**---**	---	---	**TCA2/18AWG-SB-1.5**	1,024	1,25	**TCA3/18AWG-SB-1.5**	1,024	1,33
19	**---**	---	---	**TCA2/19AWG-SB-1.5**	0,912	1,14	**TCA3/19AWG-SB-1.5**	0.912	1,22
20	**---**	---	---	**TCA2/20AWG-SB-1.5**	0,813	1,04	**TCA3/20AWG-SB-1.5**	0,813	1,12
21	**---**	---	---	**TCA2/21AWG-SB-1.5**	0,724	0,95	**TCA3/21AWG-SB-1.5**	0,724	1,03
22	**TCA1/22AWG-SB-1.5**	0,643	0,80	**TCA2/22AWG-SB-1.5**	0,643	0,87	**TCA3/22AWG-SB-1.5**	0,643	0,95
23	**TCA1/23AWG-SB-1.5**	0,574	0,73	**TCA2/23AWG-SB-1.5**	0,574	0,80	**TCA3/23AWG-SB-1.5**	0,574	0,88
24	**TCA1/24AWG-SB-1.5**	0,511	0,66	**TCA2/24AWG-SB-1.5**	0,511	0,74	**TCA3/24AWG-SB-1.5**	0,511	0,82
25	**TCA1/25AWG-SB-1.5**	0,455	0,61	**TCA2/25AWG-SB-1.5**	0,455	0,68	**TCA3/25AWG-SB-1.5**	0,455	0,76
26	**TCA1/26AWG-SB-1.5**	0,404	0,56	**TCA2/26AWG-SB-1.5**	0,404	0,63	**TCA3/26AWG-SB-1.5**	0,404	0,71
27	**TCA1/27AWG-SB-1.5**	0,361	0,51	**TCA2/27AWG-SB-1.5**	0,361	0,59	**TCA3/27AWG-SB-1.5**	0,361	0,67
28	**TCA1/28AWG-SB-1.5**	0,327	047	**TCA2/28AWG-SB-1.5**	0,327	0,55	**TCA3/28AWG-SB-1.5**	0,327	0,62
29	**TCA1/29AWG-SB-1.5**	0,287	0,44	**TCA2/29AWG-SB-1.5**	0,287	0,52	**TCA3/29AWG-SB-1.5**	0,287	0,59
30	**TCA1/30AWG-SB-1.5**	0,254	0,40	**TCA2/30AWG-SB-1.5**	0,254	0,48	**TCA3/30AWG-SB-1.5**	0,254	0,56
31	**TCA1/31AWG-SB-1.5**	0,226	0,38	**TCA2/31AWG-SB-1.5**	0,229	0,45	**TCA3/31AWG-SB-1.5**	0,226	0,53
32	**TCA1/32AWG-SB-1.5**	0,203	0,36	**TCA2/32AWG-SB-1.5**	0,203	0,43	**TCA3/32AWG-SB-1.5**	0,203	0,51
33	**TCA1/33AWG-SB-1.5**	0,178	0,33	**TCA2/33AWG-SB-1.5**	0,180	0,38	**TCA3/33AWG-SB-1.5**	0,178	0,49
34	**TCA1/34AWG-SB-1.5**	0,160	0,31	**TCA2/34AWG-SB-1.5**	0,160	0,36	**TCA3/34AWG-SB-1.5**	0,160	0,46
35	**TCA1/35AWG-SB-1.5**	0,142	0,29	**TCA2/35AWG-SB-1.5**	0,142	0,35	**TCA3/35AWG-SB-1.5**	0,142	0,45
36	**TCA1/36AWG-SB-1.5**	0,127	0,28	**TCA2/36AWG-SB-1.5**	0,127	0,33	**TCA3/36AWG-SB-1.5**	0,127	0,43
37	**TCA1/37AWG-SB-1.5**	0,114	0,27	**TCA2/37AWG-SB-1.5**	0,114	0,32	**TCA3/37AWG-SB-1.5**	0,114	0,42
38	**TCA1/38AWG-SB-1.5**	0,102	0,25	**TCA2/38AWG-SB-1.5**	0,102	0,30	**TCA3/38AWG-SB-1.5**	0,102	0,41
39	**TCA1/39AWG-SB-1.5**	0,089	0,24	**TCA2/39AWG-SB-1.5**	0,089	0,29	**TCA3/39AWG-SB-1.5**	0,089	0,39
40	**TCA1/40AWG-SB-1.5**	0,079	0,23	**TCA2/40AWG-SB-1.5**	0,079	0,28	**TCA3/40AWG-SB-1.5**	0,079	0,38

* including overcoat

Item number:

Example: FLTCA2/18AWG-SB-1.5
FL = prefix
TCA = type
2 = number of layers 1 = single, 2 = double , 3 = triple
/18 = AWG
-SB = self-bonding
-1.5 = thickness overcoat -1.5 = 0,038 mm,

Coilbond™ Self bonding Winding Wires, insulated with Tefzel® layers 0,025 mm

ETFE is a Fluoropolymer compound with excellent electrical properties, heat resistance, chemical resistance, and abrasion resistance. Commonly used in winding wires, UL AWM wires, and medical applications.

Self-Bonding Overcoat Information:

The Self-Bonding Overcoat is a proprietary material intended for bonding the product together and it should not be considered an additional layer of insulation nor should it be used for any additional electrical or mechanical properties

Conductor:	Tin Plated Copper , Solid or Stranded ASTM B-33/ASTM B-286 Bare Copper and other conductors available
Temperature Rating:	155° C
Insulation Information:	Du Pont ETFE Tefzel® with Proprietary Self-Bonding Overcoat
Thermal:	Continuous Operating Temperature,150°C
Bonding Temp. Range:	182°C - 276°C
Tensile Strength:	45 N/mm² (6500 psi)
UV Resistance:	Excellent
Underground Resistance:	Excellent
UL Flammability Rating:	UL94 V-0
Elongation:	150 -300 %
Chemical Resistance:	Excellent
Long Term Stability:	Excellent
Dielectric Constant:	2,6
Thickness / layer:	0,025 mm (0.001")
Abrasion Resistance:	Excellent
Water Resistance:	Excellent
Bondability:	IEC 68-2-20
Approvals:	UL OBJT2 File No. E206198 UL/IEC60950-1 (ed.2), Annex U; RoHS compliant

Number of layers:	2			3		
Operating voltage:	600 V			UL: 1500 V for electonic equipment UL: 707 V for medical equipment		
Breakdown Voltage:	approx. 3000 V			approx. 7000 V		
Tolerances:						
	AWG	---	---	AWG	18 -24	+ 0,038 / - 0,025 mm
	AWG	30 -40	+ 0,025 / - 0,0125 mm	AWG	25 -40	+ 0,025 / - 0,025 mm

Dimensions:						
AWG	**Type**	Conductor Ø [mm]	Outer Ø* [mm]	**Type**	Conductor Ø* [mm]	Outer Ø* [mm]
18	—	---	---	**FLT18A01TXXX-1-SB-1.5**	1,024	1,04
19	—	---	---	**FLT19A01TXXX-1-SB-1.5**	0,912	0,95
20	—	---	---	**FLT20A01TXXX-1-SB-1.5**	0,813	1,04
21	—	---	---	**FLT21A01TXXX-1-SB-1.5**	0,724	0,95
22	—	---	---	**FLT22A01TXXX-1-SB-1.5**	0,643	0,87
23	—	---	---	**FLT23A01TXXX-1-SB-1.5**	0,574	0,80
24	—	---	---	**FLT24A01TXXX-1-SB-1.5**	0,511	0,74
25	—	---	---	**FLT25A01TXXX-1-SB-1.5**	0,455	0,68
26	—	---	---	**FLT26A01TXXX-1-SB-1.5**	0,404	0,63
27	—	---	---	**FLT27A01TXXX-1-SB-1.5**	0,361	0,59
28	—	---	---	**FLT28A01TXXX-1-SB-1.5**	0,320	0,55
29	—	---	---	**FLT29A01TXXX-1-SB-1.5**	0,287	0,52
30	**D30A01TXX-1-SB-1.5**	0,254	0,43	**FLT30A01TXXX-1-SB-1.5**	0,254	0,48
31	**D31A01TXX-1-SB-1.5**	0,226	0,40	**FLT31A01TXXX-1-SB-1.5**	0,226	0,46
32	**D32A01TXX-1-SB-1.5**	0,203	0,38	**FLT32A01TXXX-1-SB-1.5**	0,203	0,43
33	**D33A01TXX-1-SB-1.5**	0,180	0,36	**FLT33A01TXXX-1-SB-1.5**	0,180	0,41
34	**D34A01TXX-1-SB-1.5**	0,160	0,34	**FLT34A01TXXX-1-SB-1.5**	0,160	0,39
35	**D35A01TXX-1-SB-1.5**	0,142	0,32	**FLT35A01TXXX-1-SB-1.5**	0,142	0,37
36	**D36A01TXX-1-SB-1.5**	0,127	0,30	**FLT36A01TXXX-1-SB-1.5**	0,127	0,36
37	**D37A01TXX-1-SB-1.5**	0,114	0,29	**FLT37A01TXXX-1-SB-1.5**	0,114	0,34
38	**D38A01TXX-1-SB-1.5**	0,102	0,28	**FLT38A01TXXX-1-SB-1.5**	0,102	0,33
39	**D39A01TXX-1-SB-1.5**	0,089	0,27	**FLT39A01TXXX-1-SB-1.5**	0,089	0,32
40	**D40A01TXX-1-SB-1.5**	0,079	0,26	**FLT40A01TXXX-1-SB-1.5**	0,079	0,31

* including overcoat

Item number:	Example:	FLT18A01TXXX-1-SB-1.5	
	FL	= Prefix	
	T	= number of layers	D = double, T =triple
	18	= AWG	
	A	= conductor material	Cu tin-plated
	01	= conductor	01 = solid wire
	T	= isolation	ETFE Tefzel®
	XXX	X = color of outer, middle, inner layer	0 = black, 1 = brown, 2 = red, 3 = orange, 4 = yellow 5 = green, 6 = blue, 7 = violet, 8 = grey, 9 = white
	-1	= thickness of layer	-1 = 0,025 mm
	-SB	= self-bonding	
	- 1.5	= thickness of overcoat	-1.5 = 0,038 mm

Coilbond™ Self-Bonding Winding Wires, insulated with Tefzel® layers 0,038 mm

ETFE is a Fluoropolymer compound with excellent electrical properties, heat resistance, chemical resistance, and abrasion resistance. Commonly used in winding wires, UL AWM wires, and medical applications.

Self-Bonding Overcoat Information:

The Self-Bonding Overcoat is a proprietary material intended for bonding the product together and it should not be considered an additional layer of insulation nor should it be used for any additional electrical or mechanical properties

Conductor:	Tin Plated Copper , Solid or Stranded ASTM B-33/ASTM B-286 Bare Copper and other conductors available
Temperature Rating:	155° C
Insulation Information:	Du Pont ETFE Tefzel® with Proprietary Self-Bonding Overcoat
Thickness Overcoat:	0,038 mm
Bonding Temp. Range:	182°C - 276°C
Tensile Strength:	45 N/mm² (6500 psi)
UV Resistance:	Excellent
Underground Resistance:	Excellent
UL Flammability Rating:	UL 94 V-0
Elongation:	150-300 %
Chemical Resistance:	Excellent
Long Term Stability:	Excellent
Dielectric Constant:	2,6
Thickness / layer:	0,038 mm (0.0015")
Abrasion Resistance:	Excellent
Bondability:	EC 68-2-20
Approvals:	UL OBJT2 File No. E206198 UL/IEC60950-1 (ed.2), Annex U.; RoHS compliant

Number of layers:		1		2		3	
Operating voltage:		600 V		600 V		1000 V	
Breakdown Voltage:		approx. 2000 V		approx. 4500 V		approx. 4500 V	
Tolerances:							
AWG	22 - 24	+ 0,038/ - 0,0125mm	18 - 24	+ 0,038/ - 0,025 mm	18 - 24	+ 0,038/ - 0,025 mm	
AWG	25 - 40	+ 0,025/ - 0,0125mm	25 - 40	+ 0,025 / - 0,025 mm	25 - 40	+ 0,025/ - 0,025mm	

Dimensions:

with 1 layer				with 2 layers			with 3 layers		
AWG	**Type**	Conductor [mm]	Outer Ø* [mm]	**Type**	Conductor [mm]	Outer Ø* [mm]	**Type**	Condutor [mm]	Outer Ø* [mm]
18	—	---	---	**D18A01TXX-1.5-SB-1.5**	1,024	1,25	**T18A01TXXX-1.5-SB-1.5**	1,024	1,33
19	—	---	---	**D19A01TXX-1.5-SB-1.5**	0,912	1,14	**T19A01TXXX-1.5-SB-1.5**	0,912	1,22
20	—	---	---	**D20A01TXX-1.5-SB-1.5**	0,813	1,04	**T20A01TXXX-1.5-SB-1.5**	0,813	1,12
21	—	---	---	**D21A01TXX-1.5-SB-1.5**	0,724	0,95	**T21A01TXXX-1.5-SB-1.5**	0,724	1,03
22	**S22A01TX-1.5-SB-1.5**	0,643	0,80	**D22A01TXX-1.5-SB-1.5**	0,643	0,87	**T22A01TXXX-1.5-SB-1.5**	0,643	0,95
23	**S23A01TX-1.5-SB-1.5**	0,574	0,73	**D23A01TXX-1.5-SB-1.5**	0,574	0,80	**T23A01TXXX-1.5-SB-1.5**	0,574	0,88
24	**S24A01TX-1.5-SB-1.5**	0,511	0,66	**D24A01TXX-1.5-SB-1.5**	0,511	0,74	**T24A01TXXX-1.5-SB-1.5**	0,511	0,82
25	**S25A01TX-1.5-SB-1.5**	0,455	0,61	**D25A01TXX-1.5-SB-1.5**	0,455	0,68	**T25A01TXXX-1.5-SB-1.5**	0,455	0,76
26	**S26A01TX-1.5-SB-1.5**	0,404	0,56	**D26A01TXX-1.5-SB-1.5**	0,404	0,63	**T26A01TXXX-1.5-SB-1.5**	0,404	0,71
27	**S27A01TX-1.5-SB-1.5**	0,361	0,51	**D27A01TXX-1.5-SB-1.5**	0,361	0,59	**T27A01TXXX-1.5-SB-1.5**	0,361	0,67
28	**S28A01TX-1.5-SB-1.5**	0,320	0.47	**D28A01TXX-1.5-SB-1.5**	0,320	0,55	**T28A01TXXX-1.5-SB-1.5**	0,320	0,62
29	**S29A01TX-1.5-SB-1.5**	0,287	0,44	**D29A01TXX-1.5-SB-1.5**	0,287	0,52	**T29A01TXXX-1.5-SB-1.5**	0,287	0,59
30	**S30A01TX-1.5-SB-1.5**	0,254	0,40	**D30A01TXX-1.5-SB-1.5**	0,254	0,48	**T30A01TXXX-1.5-SB-1.5**	0,254	0,56
31	**S31A01TX-1.5-SB-1.5**	0,226	0,38	**D31A01TXX-1.5-SB-1.5**	0,226	0,45	**T31A01TXXX-1.5-SB-1.5**	0,226	0,53
32	**S32A01TX-1.5-SB-1.5**	0,203	0,36	**D32A01TXX-1.5-SB-1.5**	0,203	0,43	**T32A01TXXX-1.5-SB-1.5**	0,203	0,51
33	**S33A01TX-1.5-SB-1.5**	0,180	0,33	**D33A01TXX-1.5-SB-1.5**	0,180	0,41	**T33A01TXXX-1.5-SB-1.5**	0,180	0,49
34	**S34A01TX-1.5-SB-1.5**	0,160	0,31	**D34A01TXX-1.5-SB-1.5**	0,160	0,39	**T34A01TXXX-1.5-SB-1.5**	0,160	0,46
35	**S35A01TX-1.5-SB-1.5**	0,142	0,29	**D35A01TXX-1.5-SB-1.5**	0,142	0,37	**T35A01TXXX-1.5-SB-1.5**	0,142	0,45
36	**S36A01TX-1.5-SB-1.5**	0,127	0,28	**D36A01TXX-1.5-SB-1.5**	0,127	0,36	**T36A01TXXX-1.5-SB-1.5**	0,127	0,43
37	**S37A01TX-1.5-SB-1.5**	0,114	0,27	**D37A01TXX-1.5-SB-1.5**	0,114	0,34	**T37A01TXXX-1.5-SB-1.5**	0,114	0,42
38	**S38A01TX-1.5-SB-1.5**	0,102	0,25	**D38A01TXX-1.5-SB-1.5**	0,102	0,33	**T38A01TXXX-1.5-SB-1.5**	0,102	0,41
39	**S39A01TX-1.5-SB-1.5**	0,089	0,24	**D39A01TXX-1.5-SB-1.5**	0,089	0,32	**T39A01TXXX-1.5-SB-1.5**	0,089	0,39
40	**S40A01TX-1.5-SB-1.5**	0,079	0,23	**D40A01TXX-1.5-SB-1.5**	0,079	0,31	**T40A01TXXX-1.5-SB-1.5**	0,079	0,38

* including overcoat

Item number:	Example:	FLT18A01TXXX-1.5-SB-1.5	
	FL	= prefix	
	T	= number of layers	S = single, D = double, T = triple
	18	= AWG	
	A	= conductor material	Cu tin-plated
	01	= conductor	01 = solid wire, 19 or 37 = with 19 or 37 wires
	T	= isolation	ETFE Tefzel®
	XXX	X = color of outer, middle, inner layer	0 = black, 1 = brown, 2 = red, 3 = orange, 4 = yellow 5 = green, 6 = blue, 7 = violet, 8 = grey, 9 = white
	-1.5	= thickness of layer	-1.5 = 0,038 mm
	-SB	= self bonding	
	- 1.5	= thickness of overcoat	-1.5 = 0,038 mm