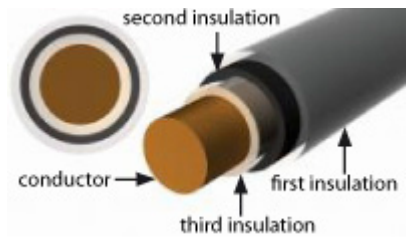
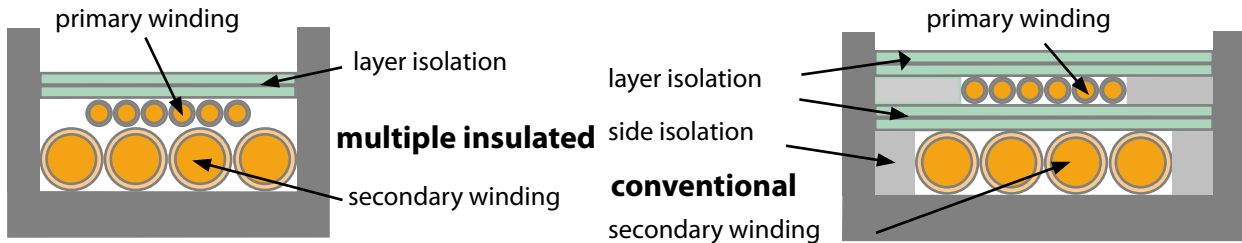


Winding wires, multiple insulated with fluoropolymers

Because of their dielectric strength, wires with fluoroplastic multi-insulation permit the construction of compact transformers without intermediate primary and secondary windings. This provides a better electromagnetic coupling between the windings, which gives lower scatter inductivity.



No storage item



Winding wires, single or multiple insulated with modified ETFE, class F

Conductor:	Tin Plated Copper
Insulation:	modified ETFE
Class of temperature:	F (155° C)
Tensile Strength:	45 N/mm ² (6500 psi)
Inflammability:	V-0
Solderability:	approx. 380 °C with flux
Compliance:	UL OBJT2 File No. E206198 UL/IEC60950-1 (Ed.3), Annex U. UL 2601, IEC 61558-2-16 60601-1 (Ed.3), 61010-1 (Ed.3), VDE-License No. 40000223: Class F IEC 60601-1, 61010-1 (Ed.3) VDE License No. 136743: Class F

Number of layers:	1	2	3
Thickness / layer:	0,025 mm	0,038 mm	0,038 mm
Standard colour:	orange	blue	grey
Operating voltage:	UL: 600 V, VDE: 1000 V	UL: 600 V, VDE: 1000 V	UL: (707 V medical) 1500 V, VDE: 1000 V
Breakdown voltage:	approx. 2000 V	approx. 4500 V	approx. 7000 V

Tolerances :						
AWG	---	---	18 - 24	+ 0,038 / - 0,038 mm	18 - 24	+ 0,038 / - 0,025 mm
AWG	26 - 40	+ 0,025 / - 0,012 mm	25 - 40	+ 0,025 / - 0,025 mm	25 - 40	+ 0,025 / - 0,025 mm

Dimensions:												
AWG	Type	conduc. [mm]	outer Ø [mm]	weight* [kg/km]	Type	conduc. [mm]	outer Ø [mm]	weight* [kg/km]	Type	conduc. [mm]	outer Ø [mm]	weight* [kg/km]
18	---	---	---	---	TCA2/1801	1,024	1,176	7,77	TCA3/1801	1,024	1,252	8,02
19	---	---	---	---	TCA2/1901	0,912	1,064	6,21	TCA3/1901	0,912	1,140	6,43
20	---	---	---	---	TCA2/2001	0,813	0,965	4,96	TCA3/2001	0,813	1,041	5,17
21	---	---	---	---	TCA2/2101	0,724	0,876	3,99	TCA3/2101	0,724	0,952	4,17
22	---	---	---	---	TCA2/2201	0,643	0,795	3,19	TCA3/2201	0,643	0,871	3,35
23	---	---	---	---	TCA2/2301	0,574	0,726	2,58	TCA3/2301	0,574	0,802	2,58
24	---	---	---	---	TCA2/2401	0,511	0,663	2,06	TCA3/2401	0,511	0,739	2,05
25	---	---	---	---	TCA2/2501	0,455	0,607	1,67	TCA3/2501	0,455	0,683	1,79
26	TCA1/2601	0,404	0,480	1,24	TCA2/2601	0,404	0,556	1,34	TCA3/2601	0,404	0,632	1,45
27	TCA1/2701	0,361	0,437	0,98	TCA2/2701	0,361	0,513	1,09	TCA3/2701	0,361	0,589	1,19
28	TCA1/2801	0,327	0,396	0,79	TCA2/2801	0,327	0,472	0,88	TCA3/2801	0,327	0,549	0,98
29	TCA1/2901	0,287	0,363	0,64	TCA2/2901	0,287	0,439	0,73	TCA3/2901	0,287	0,516	0,82
30	TCA1/3001	0,254	0,330	0,51	TCA2/3001	0,254	0,406	0,58	TCA3/3001	0,254	0,483	0,67
31	TCA1/3101	0,226	0,302	0,42	TCA2/3101	0,229	0,378	0,48	TCA3/3101	0,226	0,455	0,57
32	TCA1/3201	0,203	0,279	0,34	TCA2/3201	0,203	0,356	0,40	TCA3/3201	0,203	0,432	0,48
33	TCA1/3301	0,178	0,257	0,27	TCA2/3301	0,180	0,307	0,34	TCA3/3301	0,178	0,409	0,40
34	TCA1/3401	0,160	0,236	0,22	TCA2/3401	0,160	0,287	0,28	TCA3/3401	0,160	0,389	0,34
35	TCA1/3501	0,142	0,218	0,18	TCA2/3501	0,142	0,269	0,24	TCA3/3501	0,142	0,371	0,30
36	TCA1/3601	0,127	0,203	0,15	TCA2/3601	0,127	0,254	0,19	TCA3/3601	0,127	0,356	0,25
37	TCA1/3701	0,114	0,191	0,12	TCA2/3701	0,114	0,241	0,16	TCA3/3701	0,114	0,343	0,24
38	TCA1/3801	0,102	0,178	0,10	TCA2/3801	0,102	0,229	0,15	TCA3/3801	0,102	0,330	0,21
39	TCA1/3901	0,089	0,165	0,07	TCA2/3901	0,089	0,216	0,12	TCA3/3901	0,089	0,318	0,18
40	TCA1/4001	0,079	0,155	0,07	TCA2/4001	0,079	0,206	0,10	TCA3/4001	0,079	0,307	0,16

* approx. weight

● available from stock

Item number:

Example: FLTCA1/18

FL = prefix

TCA = type

1 = number of layers 1 = single, 2 = double, 3 = triple

/18 = AWG

Wires, triple insulation using ETFE Tefzel®, Class F

® registered trademark DuPont

Because the disruptive discharge voltage of the insulation is more than 4250 Volts, which is required by the UL for the protection of persons, these wires are also very suitable for use in medical electrical devices.

No storage item



Conductor material:	Tin Plated Copper							
Insulation:	Tefzel® (ETFE)							
Number of layers:	3							
Standard colour:	----							
Class of Temperature:	F (155° C)							
Tensile Strength:	45 N/mm ² (6500 psi)							
Thickness / layer:	0,025mm (0.001")				0,038mm (0.0015")			
Compliance:	UL OBJT2 File No. E206198				UL OBJT2 File No. E206198			
	UL/IEC60950-1 Annex U				UL/IEC60950-1 (Ed.2),(Ed.3), Annex U. UL 2601, IEC 61558-2-16, 60601-1 (Ed.3), 61010-1 (Ed.3),			
Operating voltage:	1000 V				UL: 1500 V (707 V medical), VDE: 1000 V			
Breakdown Voltage:	approx. 4500 V				approx. 7000 V			
Tolerances:								
	AWG	---	----		AWG	18 -24	+ 0,038 / - 0,025 mm	
	AWG	30 - 40	+ 0,025 /- 0,013 mm		AWG	25 -40	+ 0,025 /- 0,025 mm	
Dimensions:								
AWG	Type	Conductor Ø [mm]	Outer Ø [mm]	Weight* [kg/km]	Type	Conductor Ø [mm]	Outer Ø [mm]	Weight* [kg/km]
18	---	---	---	---	T18A01TXXX-1.5	1,024	1,252	8,02
19	---	---	---	---	---	---	---	---
20	T20A01TXXX-1	0,813	0,965	4,95	T20A01TXXX-1.5	0,813	1,041	5,16
21	T21A01TXXX-1	0,724	0,876	3,98	T21A01TXXX-1.5	0,724	0,953	4,16
22	T22A01TXXX-1	0,643	0,795	3,18	T22A01TXXX-1.5	0,643	0,871	3,34
23	T23A01TXXX-1	0,574	0,726	2,57	T23A01TXXX-1.5	0,574	0,803	2,72
24	T24A01TXXX-1	0,511	0,663	2,05	T24A01TXXX-1.5	0,511	0,739	2,20
25	T25A01TXXX-1	0,455	0,607	1,67	T25A01TXXX-1.5	0,455	0,683	1,78
26	T26A01TXXX-1	0,404	0,556	1,34	T26A01TXXX-1.5	0,404	0,632	1,46
27	T27A01TXXX-1	0,361	0,513	1,09	T27A01TXXX-1.5	0,361	0,589	1,19
28	T28A01TXXX-1	0,320	0,472	0,88	T28A01TXXX-1.5	0,320	0,549	0,98
29	T29A01TXXX-1	0,287	0,439	0,73	T29A01TXXX-1.5	0,287	0,516	0,82
30	T30A01TXXX-1	0,254	0,406	0,58	T30A01TXXX-1.5	0,254	0,483	0,68
31	T31A01TXXX-1	0,226	0,378	0,48	T31A01TXXX-1.5	0,226	0,455	0,57
32	T32A01TXXX-1	0,203	0,356	0,41	T32A01TXXX-1.5	0,203	0,432	0,48
33	T33A01TXXX-1	0,180	0,333	0,34	T33A01TXXX-1.5	0,180	0,409	0,40
34	T34A01TXXX-1	0,160	0,312	0,28	T34A01TXXX-1.5	0,160	0,389	0,34
35	T35A01TXXX-1	0,142	0,295	0,23	T35A01TXXX-1.5	0,142	0,371	0,30
36	T36A01TXXX-1	0,127	0,279	0,20	T36A01TXXX-1.5	0,127	0,356	0,25
37	T37A01TXXX-1	0,114	0,267	0,17	T37A01TXXX-1.5	0,114	0,343	0,24
38	T38A01TXXX-1	0,102	0,254	0,15	T38A01TXXX-1.5	0,102	0,330	0,20
39	T39A01TXXX-1	0,089	0,241	0,12	T39A01TXXX-1.5	0,089	0,318	0,18
40	T40A01TXXX-1	0,079	0,231	0,11	T40A01TXXX-1.5	0,079	0,307	0,16

* approx. weight

Item number:

Example: FLT18A01TXXX-1

FL = prefix

T = type

18 = AWG

A = conductor material Cu tin-plated

01 = conductor 01 = wire

T = isolation ETFE

XXX X = color of outer, 0 = black, 1 = brown, 2 = red, 3 = orange, 4 = yellow 5 = green, 6 = blue, 7 = violet, middle, inner layer 8 = grey, 9 = white

-1 = Thickness of layer -1 = 0,025 mm, -1.5 = 0,038 mm

Because the disruptive discharge voltage of the insulation is more than 4250 Volts, which is required by the UL for the protection of persons, these wires are also very suitable for use in medical electrical devices.



No storage item

Conductor material:	Tin Plated Copper
Insulation:	Tefzel® (ETFE)
Number of layers:	3
Standard colour:	---
Class of Temperature:	F (155° C)
Operating voltage:	UL: 1500 V (707V medical), VDE: 1000 V
Tensile Strength:	45 N/mm ² (6500 psi)
Dielectric Strength:	passes test IEC 60851,6 kV / 1 min with twisted pair
Inflammability:	V-0
Compliance:	UL OBJT2 File No. E206198 UL/IEC60950-1 (Ed.2), Annex U. UL 2601 IEC 61558-2-16, 60601-1 Ed.3) ,61010-1 (Ed.3), VDE License No. 136743: Class F

Thickness / layer:	0,051 mm (0.002")		
Breakdown Voltage:	approx. 9000 V		
Tolerances:	AWG	---	---
	AWG	18 - 24	+ 0,038 / - 0,025 mm
	AWG	25 - 40	+ 0,025 / - 0,025 mm

Thickness / layer:	0,076 mm (0.003")		
Breakdown Voltage:	approx. 13000 V		
Tolerances:	AWG	10 - 17	+ 0,076 / - 0,051 mm
	AWG	18 - 24	+ 0,051 / - 0,025 mm
	AWG	25 - 40	+ 0,025 / - 0,025 mm

Dimensions:				
AWG	Type	Conductor [mm]	Outer Ø [mm]	Weight* [kg/km]
14	T14A01TXXX-2	1,628	1,93	19,95
15	T15A01TXXX-2	1,45	1,76	16,03
16	T16A01TXXX-2	1,290	1,595	12,80
17	T17A01TXXX-2	1,151	1,455	10,30
18	T18A01TXXX-2	1,024	1,328	8,27
19	T19A01TXXX-2	0,912	1,217	6,67
20	T20A01TXXX-2	0,813	1,118	5,39
21	T21A01TXXX-2	0,724	1,029	3,53
22	T22A01TXXX-2	0,643	0,947	2,90
23	T23A01TXXX-2	0,574	0,879	2,35
24	T24A01TXXX-2	0,511	0,815	1,93
25	T25A01TXXX-2	0,455	0,759	1,59
26	T26A01TXXX-2	0,404	0,709	1,32
27	T27A01TXXX-2	0,361	0,665	1,10
28	T28A01TXXX-2	0,320	0,625	0,94
29	T29A01TXXX-2	0,287	0,592	0,79
30	T30A01TXXX-2	0,254	0,559	0,67
31	T31A01TXXX-2	0,226	0,531	0,58
32	T32A01TXXX-2	0,203	0,508	0,49
33	T33A01TXXX-2	0,180	0,485	0,43
34	---	---	---	---
35	---	---	---	---
36	---	---	---	---
37	---	---	---	---
38	---	---	---	---
39	---	---	---	---
40	---	---	---	---

Dimensions:				
Conductor [mm]	Type	Outer Ø [mm]	Weight* [kg/km]	Weight* [kg/km]
10	T10A01TXXX-3	2,588	3,045	50,21
10(37/26)	T10A37TXXX-3	2,718	3,175	. 46;58
12	T12A01TXXX-3	2,052	2,510	32,25
12(19/25)	T12A19TXXX-3	2,189	2,647	30,92
14	T14A01TXXX-3	1,628	2,085	220,72
14(19/27)	T14A19TXXX-3	1,725	2,182	19,94
16	T16A01TXXX-3	1,290	1,748	13,48
16(19/29)	T16A19TXXX-3	1,369	1,826	13,05
18	T18A01TXXX-3	1,024	1,481	8,856
18(19/30)	T18A19TXXX-3	1,209	1,666	10,49
20	T20A01TXXX-3	0,813	1,270	5,86
20(19/32)	T20A19TXXX-3	0,978	1,435	7,05
22	T22A01TXXX-3	0,643	1,100	3,94
22(19/34)	T22A19TXXX-3	0,749	1,207	4,66
24	T24A01TXXX-3	0,511	0,968	2,72
24(19/36)	T24A19TXXX-3	0,615	1,072	3,21
26	T26A01TXXX-3	0,404	0,861	1,91
28	T28A01TXXX-3	0,320	0,777	1,38
30	T30A01TXXX-3	0,254	0,711	1,04
32	T32A01TXXX-3	0,203	0,660	0,82
---	---	---	---	---
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* approx. weight

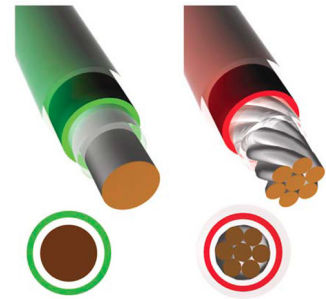
Item number:	Example: FLT18A01TXXX-1
	FL = prefix
	T = triple insulated
	18 = AWG
	A = conductor material Cu tin-plated
	01 = conductor 01 = wire, 19 = with 19 wires
	T = isolation ETFE
	XXX X = color of outer, 0 = black, 1 = brown, 2 = red, 3 = orange, 4 = yellow 5 = green, 6 = blue, 7 = violet, middle, inner layer
	-2 = Thickness of layer -2 = 0,050 mm, -3 = 0,078 mm

Winding wires, triple insulated with FEP Teflon®, Class F

® registered trademark DuPont

Because the disruptive discharge voltage of the insulation is more than 4250 Volts, which is required by the UL for the protection of persons, these wires are also very suitable for use in medical electrical devices

No storage item



Conductor material:	Tin Plated Copper
Insulation:	Teflon® (FEP)
Number of layers:	3
Standard colour:	---
Class of Temperature:	F (155° C)
Tensile Strength:	20,7 N/mm ² (3000 psi)
Compliance:	UL OBJT2 File No. E206198 UL/IEC60950-1 (Ed.2), Annex U. UL 2601 IEC 61558-2-16, 60601-1 (Ed.3), 61010-1 (Ed.3), VDE License No. 6715: Class F
Solderability:	Suitable for reflow soldering because of the temperature resistance

Thickness / layer:	0,051 mm (0.002")	0,076 mm (0.003")	0,13 mm (0.005")
Operating voltage:	600 V	1000 V	1000 V
Breakdown Voltage:	approx. 9000 V	approx. 12000 V	approx. 15000 V

Tolerances:								
AWG	---	--	AWG	---	---	AWG	8 -18	+ 0,051 / - 0,051 mm
AWG	18 - 24	+ 0,038/ - 0,038 mm	AWG	10 -24	+ 0,038/ - 0,038 mm	AWG	20 -30	+ 0,025 / - 0,025 mm
AWG	25 - 40	+ 0,025/ - 0,025 mm	AWG	25 -36	+ 0,025 / - 0,025 mm	AWG	---	----

Dimensions:												
AWG	Type	Con- ductor Ø [mm]	Outer Ø [mm]	Weight* [kg/km]	Type	Con- ductor Ø [mm]	Outer Ø [mm]	Weight* [kg/km]	Type	Con- ductor Ø [mm]	Outer Ø [mm]	Weight* [kg/km]
10	---	---	---	---	T10A37FXXX-3	2,718	3,175	47,63	T10A37FXXX-5	2,718	3,480	51,18
12	---	---	---	---	T12A19FXXX-3	2,189	2,647	31,80	T12A19FXXX-5	2,189	2,951	34,77
14	---	---	---	---	T14A19FXXX-3	1,725	2,182	20,66	T14A19FXXX-5	1,725	2,487	23,12
15	T15A01FXXX-2	1,450	1,76	---	---	---	---	---	---	---	---	---
16	T16A01FXXX-2	1,290	1,60	---	T16A01FXXX-3	1,290	1,748	14,02	T16A01FXXX-5	1,290	2,052	16,04
16	---	---	---	---	T18A19FXXX-3	1,369	1,826	13,68	T16A19FXXX-5	1,369	2,131	15,77
18	T18A01FXXX-2	1,024	1,252	8,56	T18A01FXXX-3	1,024	1,481	9,30	T18A01FXXX-5	1,024	1,786	11,03
18	T18A19FXXX-2	1,209	1,514	10,16	T18A19FXXX-3	1,209	1,666	11,01	T18A19FXXX-5	1,209	1,971	12,93
20	T20A01FXXX-2	0,813	1,118	6,61	T20A01FXXX-3	0,813	1,270	6,25	T20A01FXXX-5	0,813	1,575	7,75
20	T20A19FXXX-2	0,978	1,283	6,77	T20A19FXXX-3	0,978	1,435	7,48	T20A19FXXX-5	0,978	1,740	9,17
22	T22A01FXXX-2	0,643	0,871	3,72	T22A01FXXX-3	0,643	1,100	4,27	T22A01FXXX-5	0,643	1,405	6,44
22	T20A19FXXX-2	0,749	1,054	4,42	T22A19FXXX-3	0,749	1,207	5,02	T22A19FXXX-5	0,749	1,511	4,17
24	T24A01FXXX-2	0,511	0,815	2,52	T24A01FXXX-3	0,511	0,968	2,99	T24A01FXXX-5	0,511	1,273	4,81
24	T24A19FXXX-2	0,615	0,919	2,99	T24A19FXXX-3	0,615	1,072	3,53	T24A19FXXX-5	0,615	1,377	3,21
25	T25A01FXXX-2	0,455	0,759	2,08	---	---	---	---	---	---	---	---
26	T26A01FXXX-2	0,404	0,709	1,73	T26A01FXXX-3	0,404	0,861	2,14	T26A01FXXX-5	0,404	1,166	3,21
26	---	---	---	---	T26A19FXXX-3	0,483	0,940	2,46	T26A19FXXX-5	0,483	1,245	3,60
27	T27A01FXXX-2	0,361	0,665	1,44	---	---	---	---	---	---	---	---
28	T28A01FXXX-2	0,320	0,625	1,22	T28A01FXXX-3	0,320	0,777	1,58	T28A01FXXX-5	0,320	1,082	2,56
28	---	---	---	---	T28A19FXXX-3	0,386	0,843	1,82	T28A19FXXX-5	0,386	1,148	2,87
29	T29A01FXXX-2	0,287	0,592	1,04	---	---	---	---	---	---	---	---
30	T30A01FXXX-2	0,254	0,559	0,88	T30A01FXXX-3	0,254	0,711	1,22	T30A01FXXX-5	0,254	1,02	---
31	T31A01FXXX-2	0,226	0,531	0,76	---	---	---	---	---	---	---	---
32	T32A01FXXX-2	0,203	0,508	0,67	---	---	---	---	---	---	---	---
33	T33A01FXXX-2	0,180	0,485	0,58	---	---	---	---	---	---	---	---
34	T34A01FXXX-2	0,160	0,465	0,51	---	---	---	---	---	---	---	---
35	T35A01FXXX-2	0,142	0,447	0,45	---	---	---	---	---	---	---	---
36	T36A01FXXX-2	0,127	0,432	0,41	---	---	---	---	---	---	---	---
37	---	---	---	---	---	---	---	---	---	---	---	---
38	---	---	---	---	---	---	---	---	---	---	---	---
39	---	---	---	---	---	---	---	---	---	---	---	---
40	---	---	---	---	---	---	---	---	---	---	---	---

* approx. weight

Item number:	Example: FLT10A01FXXX-3
	FL = prefix
	T = triple insulated
	10 = AWG
	A = conductor material Cu tin-plated
	37 = conductor 01 = solid wire, 19 or 37 = with 19 or 37 wires
	F = isolation FEP
	XXX X = color of outer, 0 = black, 1 = brown, 2 = red, 3 = orange, 4 = yellow 5 = green, 6 = blue, 7 = violet, middle, inner layer 8 = grey, 9 = white
	-3 = Thickness of layer -2 = 0,050 mm, -3 = 0,078 mm, -5 = 0,13mm

Winding wires, triple insulated with PFA Teflon®, Class H

® registered trademark DuPont

Because the disruptive discharge voltage of the insulation is more than 4250 Volts, which is required by the UL for the protection of persons, these wires are also very suitable for use in medical electrical devices



No storage item

Conductor material:	Tin Plated Copper
Insulation:	Teflon® (PFA)
Number of layers:	3
Standard colour:	---
Class of Temperature:	H (180° C, peak 260 °C)
Tensile Strength:	24,8 N/mm ² (3600 psi)
Compliance:	UL OBJT2 File No. E206198 UL/IEC60950-1 (Ed.2), Annex U. UL 2601 IEC 61558-2-16, 60601-1 (Ed.3), 61010-1 (Ed.3), VDE License No. 6715: Class F
Solderability:	Suitable for reflow soldering because of the temperature resistance

Thickness / layer:	0,038 mm (0.0015")	0,51 mm (0.002")	0,76 mm (0.003")
Operating voltage:	1000 V	1000 V	1000 V
Breakdown Voltage:	approx. 6000 V	approx. 10000 V	approx. 13000 V

Tolerances:

AWG	18 - 24	+ 0,025 / - 0,025 mm	18 - 24	+ 0,025 / - 0,025 mm	18 - 24	+ 0,025 / - 0,025 mm
AWG	25 - 40	+ 0,025 / - 0,025 mm	25 - 40	+ 0,025 / - 0,025 mm	25 - 32	+ 0,025 / - 0,025 mm

Dimensions: **Certain AWG dimensions also available as stranded wires. - Don't hesitate to ask us!**

AWG	Type	Conductor Ø [mm]	Outer Ø [mm]	Weight* [kg/km]	Type	Conductor Ø [mm]	Outer Ø [mm]	Weight* [kg/km]	Type	Conductor Ø [mm]	Outer Ø [mm]	Weight* [kg/km]
10	---	---	---	---	---	---	---	---	T10A01PXXX-3	2,588	3,045	51,25
11	---	---	---	---	---	---	---	---	T11A01PXXX-3	2,304	2,761	41,08
12	---	---	---	---	---	---	---	---	T12A01PXXX-3	2,052	2,510	33,09
13	---	---	---	---	---	---	---	---	T13A01PXXX-3	1,829	2,286	26,64
14	---	---	---	---	---	---	---	---	T14A01PXXX-3	1,628	2,085	21,40
15	---	---	---	---	---	---	---	---	T15A01PXXX-3	1,450	1,908	17,35
16	T16A01PXXX-1.5	1,290	1,519	12,74	---	---	---	---	T16A01PXXX-3	1,290	1,748	14,02
17	T17A01PXXX-1.5	1,151	1,379	10,24	---	---	---	---	T17A01PXXX-3	1,151	1,608	11,44
18	T18A01PXXX-1.5	1,024	1,252	8,02	T18A01PXXX-2	1,024	1,328	8,56	T18A01PXXX-3	1,024	1,481	9,31
19	T19A01PXXX-1.5	0,912	1,140	6,62	T19A01PXXX-2	0,912	1,217	6,92	T19A01PXXX-3	0,912	1,369	7,61
20	T20A01PXXX-1.5	0,813	1,041	5,16	T20A01PXXX-2	0,813	1,118	5,61	T20A01PXXX-3	0,813	1,270	6,25
21	T21A01PXXX-1.5	0,724	0,953	4,16	T21A01PXXX-2	0,724	1,029	4,58	T21A01PXXX-3	0,724	1,181	5,16
22	T22A01PXXX-1.5	0,643	0,871	3,34	T22A01PXXX-2	0,643	0,947	3,72	T22A01PXXX-3	0,643	1,100	4,27
23	T23A01PXXX-1.5	0,574	0,803	2,72	T23A01PXXX-2	0,574	0,879	3,10	T23A01PXXX-3	0,574	1,031	3,57
24	T24A01PXXX-1.5	0,511	0,739	2,20	T24A01PXXX-2	0,511	0,815	2,51	T24A01PXXX-3	0,511	0,968	2,99
25	T25A01PXXX-1.5	0,455	0,683	1,79	T25A01PXXX-2	0,455	0,759	2,08	T25A01PXXX-3	0,455	0,912	2,53
26	T26A01PXXX-1.5	0,404	0,632	1,46	T26A01PXXX-2	0,404	0,709	1,73	T26A01PXXX-3	0,404	0,861	2,14
27	T27A01PXXX-1.5	0,361	0,589	1,19	T27A01PXXX-2	0,361	0,665	1,44	T27A01PXXX-3	0,361	0,818	1,85
28	T28A01PXXX-1.5	0,320	0,549	0,98	T28A01PXXX-2	0,320	0,625	1,22	T28A01PXXX-3	0,320	0,777	1,58
29	T29A01PXXX-1.5	0,287	0,516	0,82	T29A01PXXX-2	0,287	0,592	1,04	T29A01PXXX-3	0,287	0,744	1,40
30	T30A01PXXX-1.5	0,254	0,483	0,67	T30A01PXXX-2	0,254	0,559	0,88	T30A01PXXX-3	0,254	0,711	1,22
31	T31A01PXXX-1.5	0,226	0,455	0,57	T31A01PXXX-2	0,226	0,531	0,76	---	---	---	---
32	T32A01PXXX-1.5	0,203	0,432	0,48	T32A01PXXX-2	0,203	0,508	0,67	---	---	---	---
33	T33A01PXXX-1.5	0,180	0,409	0,41	---	---	---	---	---	---	---	---
34	T34A01PXXX-1.5	0,160	0,389	0,34	---	---	---	---	---	---	---	---
35	T35A01PXXX-1.5	0,142	0,371	0,30	---	---	---	---	---	---	---	---
36	T36A01PXXX-1.5	0,127	0,356	0,25	---	---	---	---	---	---	---	---
37	T37A01PXXX-1.5	0,114	0,343	0,24	---	---	---	---	---	---	---	---
38	T38A01PXXX-1.5	0,102	0,330	0,21	---	---	---	---	---	---	---	---
39	T39A01PXXX-1.5	0,089	0,318	0,18	---	---	---	---	---	---	---	---
40	T40A01PXXX-1.5	0,079	0,307	0,16	---	---	---	---	---	---	---	---

* approx. weight

Item number:	Example: FLT10A01PXXX-1.5
FL	= prefix
T	= triple insulated
10	= AWG
A	= conductor material Cu tin-plated
01	= conductor 01 = solid wire
P	= isolation PFA
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
-3	= Thickness of layer -1.5 = 0,038 mm, -2 = 0,050 mm, -3 = 0,078 mm

Solid and stranded Wires, double insulated with ETFE Tefzel®, Class F

® registered trademark DuPont

For applications being short of space where a slightly smaller breakdown voltage is acceptable.

No storage item

Conductor material:	Tin Plated Copper
Insulation:	Tefzel® (ETFE)
Number of layers:	2
Standard colour:	----
Class of Temperature:	F (155° C)
Tensile Strength:	45 N/mm ² (6500 psi)

Thickness / layer:	0,025mm (0.001")
Compliance:	UL OBJT2 File No. E206198 UL/IEC60950-1 (ed.2), Annex U
Inflammability:	----
Operating voltage:	1000 V
Breakdown Voltage:	approx. 3000 V

Tolerances:

	AWG	---	----
	AWG	30 - 40	+ 0,025 /- 0,013 mm

Dimensions:

AWG	Type	Conductor [mm]	Outer Ø [mm]	Weight * [kg/km]
18	---	---	---	---
19	---	---	---	---
20	---	---	---	---
21	---	---	---	---
22	---	---	---	---
23	---	---	---	---
24	---	---	---	---
25	---	---	---	---
26	---	---	---	---
27	---	---	---	---
28	---	---	---	---
29	---	---	---	---
30	D30A01TXX-1	0,254	0,356	0,54
31	D31A01TXX-1	0,226	0,328	0,43
32	D32A01TXX-1	0,203	0,305	0,36
33	D33A01TXX-1	0,180	0,262	0,30
34	D34A01TXX-1	0,160	0,244	0,24
35	D35A01TXX-1	0,142	0,244	0,20
36	D36A01TXX-1	0,127	0,229	0,16
37	D37A01TXX-1	0,114	0,216	0,13
38	D38A01TXX-1	0,102	0,203	0,12
39	D39A01TXX-1	0,089	0,191	0,09
40	D40A01TXX-1	0,079	0,180	0,07

* approx. weight

Item number:

Example: FLD18A01TXX-1.5

FL = prefix

D = double insulated

18 = AWG

A = conductor material Cu tin-plated

01 = conductor 01 = solid wire

T = isolation ETFE

XX X = color of outer, 0 = black, 1 = brown, 2 = red, 3 = orange, 4 = yellow 5 = green, 6 = blue, 7 = violet, inner layer 8 = grey, 9 = white

-1.5 = Thickness of layer -1 = 0,025 mm, -1.5 = 0,038 mm

Thickness / layer:	0,038mm (0.0015")
Compliance:	UL OBJT2 File No. E206198 UL/IEC60950-1 (Ed.2), Annex U. UL 2601, IEC 61558-2-16, 60601-1 (Ed.3), 61010-1 (Ed.3), VDE License No. 136743: Class F
Inflammability:	V-0
Operating voltage:	UL: 600 V, VDE: 1000 V
Breakdown Voltage:	approx. 4500 V

Tolerances:

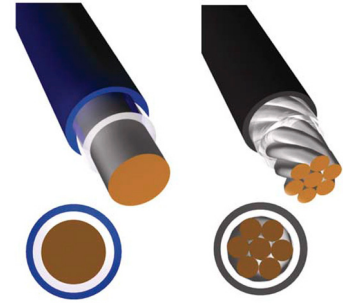
	AWG	18 -24	+ 0,038 / - 0,025 mm
	AWG	25 -40	+ 0,025 /- 0,025 mm

Dimensions:

AWG	Type	Conductor [mm]	Outer Ø [mm]	Weight * [kg/km]
18	D18A01TXX-1.5	1,024	1,176	7,77
19	D19A01TXX-1.5	0,912	1,064	6,20
20	D20A01TXX-1.5	0,813	0,965	4,96
21	D21A01TXX-1.5	0,724	0,876	3,99
22	D22A01TXX-1.5	0,643	0,795	3,18
23	D23A01TXX-1.5	0,574	0,726	2,57
24	D24A01TXX-1.5	0,511	0,663	2,05
25	D25A01TXX-1.5	0,455	0,607	1,67
26	D26A01TXX-1.5	0,404	0,556	1,34
27	D27A01TXX-1.5	0,361	0,513	1,09
28	D28A01TXX-1.5	0,320	0,472	0,88
29	D29A01TXX-1.5	0,287	0,439	0,73
30	D30A01TXX-1.5	0,254	0,406	0,58
31	D31A01TXX-1.5	0,226	0,378	0,48
32	D32A01TXX-1.5	0,203	0,356	0,40
33	D33A01TXX-1.5	0,180	0,333	0,33
34	D34A01TXX-1.5	0,160	0,312	0,27
35	D35A01TXX-1.5	0,142	0,295	0,22
36	D36A01TXX-1.5	0,127	0,279	0,19
37	D37A01TXX-1.5	0,114	0,267	0,16
38	D38A01TXX-1.5	0,102	0,254	0,15
39	D39A01TXX-1.5	0,089	0,241	0,12
40	D40A01TXX-1.5	0,079	0,231	0,10

For applications being short of space where a slightly smaller breakdown voltage is acceptable.

No storage item



Conductor material:	Tin Plated Copper
Insulation:	Tefzel® (ETFE)
Number of layers:	2
Standard colour:	---
Class of Temperature:	F (155° C)
Tensile Strength:	45 N/mm ² (6500 psi)
Compliance:	UL OBJT2 File No. E206198 UL/IEC60950-1 (Ed.2), Annex U. UL 2601 IEC 61558-2-16, VDE License No. 136743: Class F

Thickness / layer:	0,051 mm (0.002")
Operating voltage:	UL: 600 V, VDE: 1000 V
Breakdown Voltage:	approx. 6000 V
Inflammability:	---

Tolerances:

AWG	---	---
AWG	18 - 24	+ 0,038 / - 0,025 mm
AWG	25 - 40	+ 0,025 / - 0,025 mm

Thickness / layer:	0,076 mm (0.003")
Operating voltage:	UL: 600 V, VDE: 1000 V
Breakdown Voltage:	approx. 9000 V
Inflammability:	V-0

Tolerances:

AWG	10 - 17	+ 0,076 / - 0,051 mm
AWG	18 - 24	+ 0,051 / - 0,025 mm
AWG	25 - 40	+ 0,025 / - 0,025 mm

Dimensions:

AWG	Type	Conductor Ø [mm]	Outer Ø [mm]	Weight* [kg/km]
16	---	---	---	---
17	---	---	---	---
18	D18A01TXX-2	1,024	1,227	7,93
19	D19A01TXX-2	0,912	1,115	6,35
20	D20A01TXX-2	0,813	1,016	5,09
21	D21A01TXX-2	0,724	0,927	4,11
22	D22A01TXX-2	0,643	0,846	3,29
23	D23A01TXX-2	0,574	0,777	2,68
24	D24A01TXX-2	0,511	0,714	2,14
25	D25A01TXX-2	0,455	0,658	1,74
26	D26A01TXX-2	0,404	0,607	1,41
27	D27A01TXX-2	0,361	0,564	1,16
28	D28A01TXX-2	0,320	0,523	0,94
29	D29A01TXX-2	0,287	0,490	0,79
30	D30A01TXX-2	0,254	0,457	0,64
31	D31A01TXX-2	0,226	0,429	0,54
32	D32A01TXX-2	0,203	0,406	0,46
33	D33A01TXX-2	0,180	0,384	0'39
34	D34A01TXX-2	0,160	0,363	0,33
35	D35A01TXX-2	0,142	0,345	0,27
36	D36A01TXX-2	0,127	0,330	0,24
37	D37A01TXX-2	0,114	0,318	0,21
38	D38A01TXX-2	0,102	0,305	0,18
39	---	---	---	---
40	---	---	---	---

* approx. weight

Dimensions:

AWG	Type	Conductor Ø [mm]	Outer Ø [mm]	Weight* [kg/km]
10	---	---	---	---
10(37/26)	D10A37TXX-3	2,718	3,023	45,3
12	D12A01TXX-3	2,052	2,357	31,3
12(19/25)	D12A19TXX-3	2,189	2,494	29,9
14	D14A01TXX-3	1,628	1,933	19,9
14(19/27)	D14A19TXX-3	1,725	2,029	19,1
16	D16A01TXX-3	1,290	1,595	12,8
17	---	---	---	---
18	D18A01TXX-3	1,024	1,328	8,3
19	---	---	---	---
20	D20A01TXX-3	0,813	1,118	5,39
21	D21A01TXX-3	0,978	1,029	4,37
22	D22A01TXX-3	0,643	0,947	3,53
23	D23A01TXX-3	0,749	0,879	2,90
24	D24A01TXX-3	0,511	0,815	2,35
25	D25A01TXX-3	0,615	0,759	1,93
26	D26A01TXX-3	0,404	0,709	1,59
27	D27A01TXX-3	0,361	0,665	1,32
28	D28A01TXX-3	0,320	0,625	1,10
29	D29A01TXX-3	0,287	0,592	1,01
30	D30A01TXX-3	0,254	0,559	0,79
31	D32A01TXX-3	0,226	0,531	0,67
32	D32A01TXX-3	0,203	0,508	0,58
---	---	---	---	---
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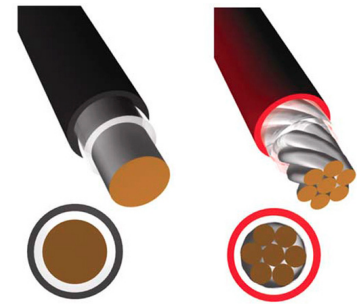
Item number: Example: FLD10A01TXX-3

FL	= prefix	
D	= double insulated	
10	= AWG	
A	= conductor material	Cu tin-plated
37	= conductor	01 = solid wire, 19 or 37 = with 19 or 37 wires
T	= isolation	ETFE
XX	X = color of outer, inner layer	0 = black, 1 = brown, 2 = red, 3 = orange, 4 = yellow 5 = green, 6 = blue, 7 = violet, 8 = grey, 9 = white
-3	= Thickness of layer	-2 = 0,050 mm, -3 = 0,078 mm

Solid and stranded Wires, double insulated with FEP Teflon® Class F

® registered trademark DuPont

For applications being short of space where a slightly smaller breakdown voltage is acceptable.



Conductor material:	Tin Plated Copper
Insulation:	Teflon® (FEP)
Number of layers:	2
Standard colour:	---
Class of temperature:	F (155° C)
Tensile strength:	20,7 N/mm ² (3000 psi)
Compliance:	UL OBJT2 File No. E206198 UL/IEC60950-1 (Ed.2), Annex U, IEC 61010-1 (Ed.3), VDE License No. 6715: Class F
Solderability:	Suitable for reflow soldering because of the temperature resistance

Thickness / layer:	0,051 mm (0.002")
Operating voltage:	600 V
Breakdown Voltage:	approx. 6000 V
Inflammability:	---

Tolerances:

AWG	---	---
AWG	18 - 24	+ 0,038/ - 0,038 mm
AWG	25 - 40	+ 0,025/ - 0,025 mm

Dimensions:

AWG	Type	Conductor Ø [mm]	Outer Ø [mm]	Weight* [kg/km]
10	---	---	---	---
12	---	---	---	---
12	---	---	---	---
14	---	---	---	---
14	---	---	---	---
16	---	---	---	---
16	---	---	---	---
18	D18A01FXX-2	1,024	1,227	8,11
18	D18A19FXX-2	1,209	1,412	9,66
20	D20A01FXX-2	0,813	1,016	5,24
20	D20A19FXX-2	0,978	1,181	6,34
22	D22A01FXX-2	0,643	0,846	3,41
22	D22A19FXX-2	0,749	0,953	4,06
24	D24A01FXX-2	0,511	0,714	2,25
24	D24A19FXX-2	0,615	0,818	2,69
25	D25A01FXX-2	0,455	0,658	1,55
26	D26A01FXX-2	0,403	0,607	1,23
26	---	---	---	---
27	D27A01FXX-2	0,361	0,665	1,23
28	D28A01FXX-2	0,320	0,625	1,01
28	---	---	---	---
29	D29A01FXX-2	0,287	0,592	0,85
30	D30A01FXX-2	0,254	0,559	0,70
31	D31A01FXX-2	0,226	0,531	0,58
32	D32A01FXX-2	0,203	0,508	0,51
33	D33A01FXX-2	0,180	0,485	0,43
34	D34A01FXX-2	0,160	0,465	0,36
35	D35A01FXX-2	0,142	0,447	0,31
36	D36A01FXX-2	0,127	0,432	0,27
37	D37A01FXX-2	0,114	0,419	0,24
38	D38A01FXX-2	0,102	0,406	0,21
39	---	---	---	---
40	---	---	---	---

* approx. weight

Item number:

Example: FLD10A37FXX-3

FL = prefix

D = double insulated

10 = AWG

A = conductor material Cu tin-plated

37 = conductor 01 = solid wire, 19 or 37 = with 19 or 37 wires

F = isolation FEP

XX X = color of outer, 0 = black, 1 = brown, 2 = red, 3 = orange, 4 = yellow 5 = green, 6 = blue, 7 = violet, inner layer 8 = grey, 9 = white

-3 = Thickness of layer -2 = 0,050 mm, -3 = 0,078

Thickness / layer:	0,076 mm (0.003")
Operating voltage:	600 V
Breakdown Voltage:	approx. 9000 V
Inflammability:	---

Tolerances:

AWG	---	---
AWG	10 - 24	+ 0,038/ - 0,038 mm
AWG	25 - 36	+ 0,025 / - 0,025 mm

Dimensions:

AWG	Type	Conductor Ø [mm]	Outer Ø [mm]	Weight* [kg/km]
10	D10A37FXX-3	2,718	3,023	45,6
12	D12A01FXX-3	2,052	2,357	31,18
12	D12A19FXX-3	1,628	2,494	30,4
14	D14A01FXX-3	1,628	1,933	20,3
14	D14A19FXX-3	1,725	2,029	19,5
16	D16A01FXX-3	1,290	1,595	13,1
16	D16A19FXX-3	1,369	1,674	12,8
18	D18A01FXX-3	1,024	1,328	8,55
18	D18A19FXX-3	1,209	1,514	10,2
20	D20A01FXX-3	0,813	1,118	5,6
20	D20A19FXX-3	0,813	1,283	6,7
22	D22A01FXX-3	0,978	0,947	3,7
22	D22A19FXX-3	0,643	1,054	4,4
24	D24A01FXX-3	0,749	0,815	2,5
24	D24A19FXX-3	0,511	0,919	3,0
25	---	---	---	---
26	D26A01FXX-3	0,404	0,709	1,7
26	D26A19FXX-3	0,483	0,787	2,0
27	---	---	---	---
28	D28A01FXX-3	0,320	0,625	1,2
28	D28A19FXX-3	0,386	0,691	1,4
29	---	---	---	---
30	D30A01FXX-3	0,254	0,559	0,88
31	---	---	---	---
32	D32A01FXX-3	0,203	0,508	0,67
33	---	---	---	---
34	---	---	---	---
35	---	---	---	---
36	---	---	---	---
37	---	---	---	---
38	---	---	---	---
39	---	---	---	---
40	---	---	---	---

Solid Wires, double insulated with PFA Teflon[®], Class H

® registered trademark DuPont

For applications being short of space where a slightly smaller breakdown voltage is acceptable.

No storage item

Conductor material:	Tin Plated Copper											
Insulation:	Teflon [®] (PFA)											
Number of layers:	2											
Standard colour:	---											
Class of Temperature:	H (180° C, peak 260 °C)											
Tensile strength:	24,2 N/mm ² (3500 psi)											
Solderability:	Suitable for reflow soldering because of the temperature resistance											
Compliance:	UL OBJT2 File No. E206198 UL/IEC60950-1 (ed2), Annex U.		UL OBJT2 File No. E206198 UL/IEC60950-1 (Ed.2), Annex U. UL 2601 IEC 61558-2-16, 60601-1 (Ed.3), 61010-1 (Ed.3), VDE License No. 6716: Class H									
Inflammability:	---		V-0									
Thickness / layer:	0,038 mm (0.0015")		0,51 mm (0.002")		0,76 mm (0.003")							
Operating voltage:	600 V		UL: 600 V, VDE: 1000 V		UL: 600 V, VDE: 1000 V							
Breakdown Voltage:	approx. 6000 V		approx. 8000 V		approx. 11000 V							
Tolerances:												
AWG	18 - 24	+ 0,025/ - 0,025 mm	18 - 24	+ 0,025/ - 0,025 mm	18 - 24	+ 0,025 / - 0,025 mm						
AWG	25 - 40	+ 0,025/ - 0,025 mm	25 - 40	+ 0,025 / - 0,025 mm	25 - 32	+ 0,025 / - 0,025 mm						
Dimensions: Certain AWG dimensions also available as stranded wires. - Don't hesitate to ask us!												
AWG	Type	Con- ductor Ø [mm]	Outer Ø [mm]	Weight* [kg/km]	Type	Con- ductor Ø [mm]	Outer Ø [mm]	Weight* [kg/km]	Type	Con- ductor Ø [mm]	Outer Ø [mm]	Weight* [kg/km]
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	D18A01PXX-1.5	1,024	1,176	7,90	D18A01PXX-2	1,024	1,227	8,11	D18A01PXX-3	1,024	1,328	8,55
19	D19A01PXX-1.5	0,912	1,064	6,32	D19A01PXX-2	0,912	1,115	6,51	D19A01PXX-3	0,912	1,217	6,92
20	D20A01PXX-1.5	0,813	0,965	5,07	D20A01PXX-2	0,813	1,016	5,24	D20A01PXX-3	0,813	1,118	5,61
21	D21A01PXX-1.5	0,724	0,876	4,07	D21A01PXX-2	0,724	0,927	4,24	D21A01PXX-3	0,724	1,029	4,58
22	D22A01PXX-1.5	0,643	0,795	3,26	D22A01PXX-2	0,643	0,846	3,40	D22A01PXX-3	0,643	0,947	3,72
23	D23A01PXX-1.5	0,574	0,726	2,65	D23A01PXX-2	0,574	0,777	2,78	D23A01PXX-3	0,574	0,879	3,06
24	D24A01PXX-1.5	0,511	0,663	2,13	D24A01PXX-2	0,511	0,714	2,24	D24A01PXX-3	0,511	0,815	2,51
25	D25A01PXX-1.5	0,455	0,607	1,72	D25A01PXX-2	0,455	0,658	1,83	D25A01PXX-3	0,455	0,759	2,08
26	D26A01PXX-1.5	0,404	0,556	1,40	D26A01PXX-2	0,404	0,607	1,49	D26A01PXX-3	0,404	0,709	1,73
27	D27A01PXX-1.5	0,361	0,513	1,13	D27A01PXX-2	0,361	0,564	1,23	D27A01PXX-3	0,361	0,665	1,44
28	D28A01PXX-1.5	0,320	0,472	0,92	D28A01PXX-2	0,320	0,523	1,01	D28A01PXX-3	0,320	0,625	1,22
29	D29A01PXX-1.5	0,287	0,439	0,77	D29A01PXX-2	0,287	0,490	0,85	D29A01PXX-3	0,287	0,592	1,04
30	D30A01PXX-1.5	0,254	0,406	0,62	D30A01PXX-2	0,254	0,457	0,70	D30A01PXX-3	0,254	0,559	0,88
31	D31A01PXX-1.5	0,226	0,378	0,52	D31A01PXX-2	0,226	0,429	0,58	D31A01PXX-3	0,226	0,531	0,76
32	D32A01PXX-1.5	0,203	0,356	0,43	D32A01PXX-2	0,203	0,406	0,51	D32A01PXX-3	0,203	0,508	0,67
33	D33A01PXX-1.5	0,180	0,333	0,36	D33A01PXX-2	0,180	0,384	0,43	D33A01PXX-3	0,180	0,485	0,58
34	D34A01PXX-1.5	0,160	0,312	0,30	D34A01PXX-2	0,160	0,363	0,36	D34A01PXX-3	0,160	0,465	0,51
35	D35A01PXX-1.5	0,142	0,295	0,25	D35A01PXX-2	0,142	0,345	0,31	D35A01PXX-3	0,142	0,447	0,45
36	D36A01PXX-1.5	0,127	0,279	0,22	D36A01PXX-2	0,127	0,330	0,27	D36A01PXX-3	0,127	0,432	0,40
37	D37A01PXX-1.5	0,114	0,267	0,19	D37A01PXX-2	0,114	0,318	0,24	---	---	---	---
38	D38A01PXX-1.5	0,102	0,254	0,16	D38A01PXX-2	0,102	0,305	0,21	---	---	---	---
39	D39A01PXX-1.5	0,089	0,241	0,13	---	---	---	---	---	---	---	---
40	D40A01PXX-1.5	0,079	0,231	0,12	---	---	---	---	---	---	---	---

* approx. weight

Item number:	Example: FLD18A01FXX-1.5
FL	= prefix
D	= double insulated
18	= AWG
A	= conductor material Cu tin-plated
01	= conductor 01 = solid wire
P	= isolation PFA
XX	X = color of outer, 0 = black, 1 = brown, 2 = red, 3 = orange, 4 = yellow 5 = green, 6 = blue, 7 = violet, inner layer 8 = grey, 9 = white
-1.5	= Thickness of layer -1.5 = 0,038 mm, -2 = 0,050 mm, -3 = 0,078 mm