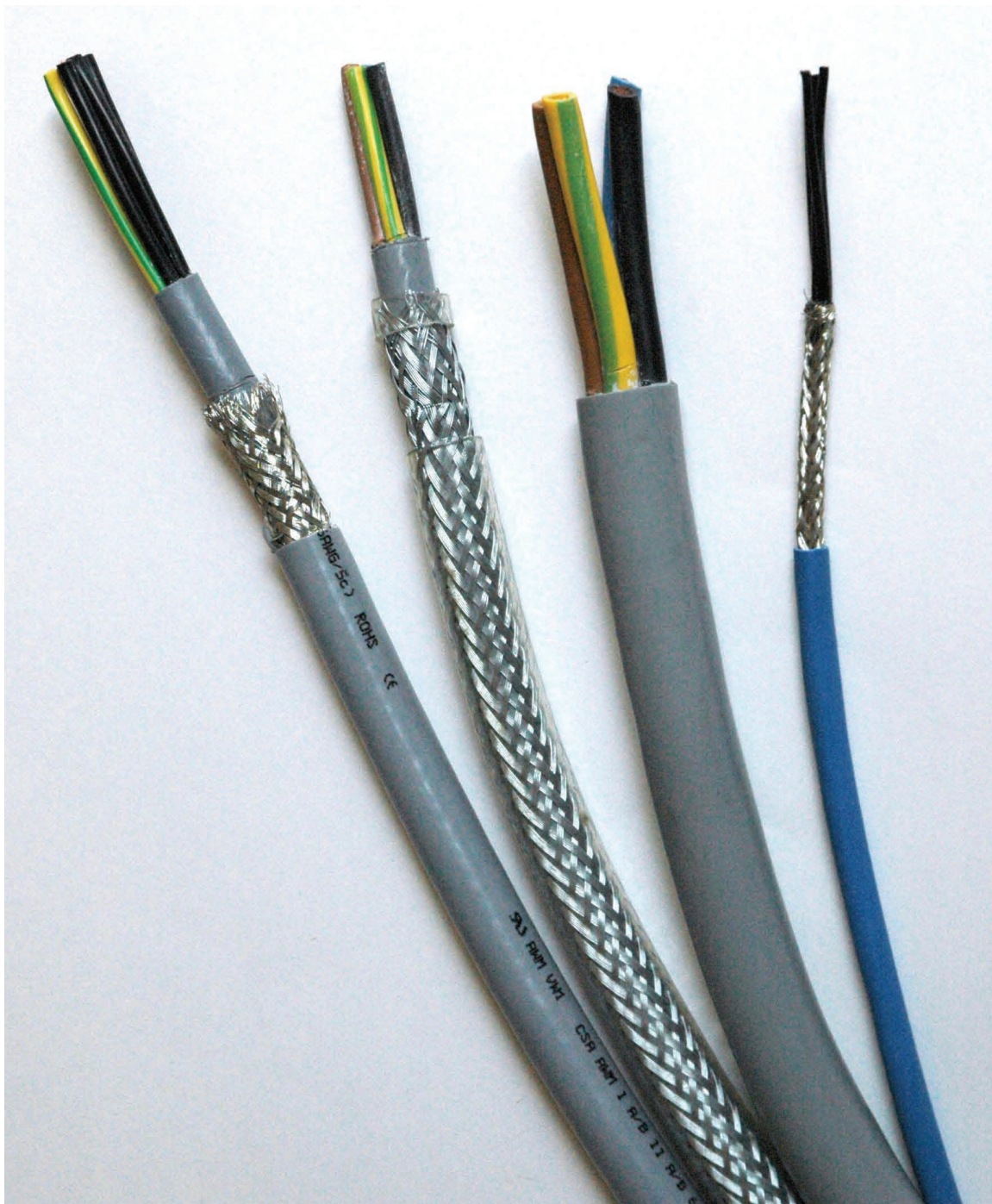


Flexible Control Cables



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What is CE?



The **CE mark** (officially **CE marking**) is a mandatory conformity mark on many products placed on the single market in the European Economic Area (EEA). The term initially used was "EC Mark" and it was officially replaced by "CE Marking" in the Directive 93/68/EEC in 1993. "EC mark" is still in use, but it is not the official term.

By affixing the **CE** marking, the manufacturer, its authorized representative, or person placing the product on the market or putting it into service asserts that the item meets all the essential requirements of EU electrical directives 73/23/EEC & 93/68/EEC and that the applicable conformity assessment procedures have been applied. The **CE** marking is a mandatory European marking to indicate conformity with the essential health, safety and consumer protection requirements set out in European Directives. Most similar to UL or the NEC in the United States.

The **CE** mark therefore indicates that the product is acceptable for safe use within the community. US manufacturers require CE marked products and components when their end use product is going to be shipped and used in Europe. CE is self-certifying which means that if the compliant product does not meet a specific European product standard, the importer must document how the product is safe. In this case, reference can be made to another body such as UL or NEC. If this is not possible, the manufacturer can state that the product fulfills the safety requirement on its own with verifiable documentation.

What is VDE?



Standards for innovation and safety

Ever since the first electro-technical standard VDE 0100 was passed on November 23, 1895 at the Wartburg Castle in Eisenach, Germany, VDE standards have been an inseparable part of the development of key technologies in electrical engineering, information technology and consumer protection.

DKE - the German Commission for Electrical, Electronic & Information Technologies - is a joint organization of DIN (German Institute for Standardization) and the VDE. The VDE is responsible for the daily operations of the DKE, which is the national organization for developing standards and safety regulations for electrical, electronic and information technologies. DKE represents German interests in the European and international standardization organizations CENELEC and IEC.

The VDE Testing and Certification Institute tests electrical products and issues the worldwide known and respected **VDE** certification mark. In turn, the know-how accumulated annually in the roughly 16,000 tests flows back into the VDE's standardization work. The VDE publishing house (VDE Verlag GmbH) publishes and markets the VDE regulatory works and specialist publications on standardization.

The VDE provides current information on standardization proposals and developments in electro-technical fields on its DKE Internet homepage. You can also find the right contacts for our free telephone service and information on the DKE offices throughout Germany. DIN-VDE or IEC standards can be researched, ordered and subscribed to online.

Color Codes for CE / VDE Cables

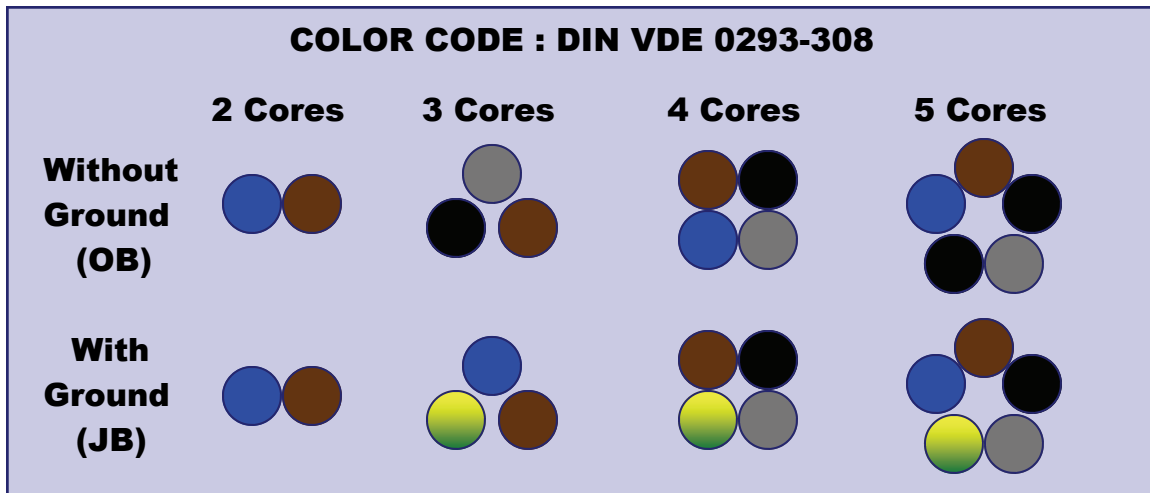
Below are the four common color code combinations and constructions for most CE and VDE European cables available. VDE-0293-308 color code is as follows:

OB - VDE-0293-308 Color Code without a Green/Yellow Ground

JB - VDE-0293-308 Color Code with a Green/Yellow Ground

OZ - VDE-0293 Black Cores w/ White Numbers without a Green/Yellow Ground

JZ - VDE-0293 Black Cores w/ White Numbers with a Green/Yellow Ground



****NOTE**** Above 5 cores, the color code is all black with white numbers with or without a green/yellow ground wire. For special products as **FLEX-OB**, **FLEX-JB**, **SY-JB (OB)**, **CY-JB (OB)** and **POWER-JB**, please refer the OB and JB Full Color Code charts in our technical section.

** More information and additional color code charts can be found in our Technical section of this catalog.

FLEX-OB Colored Cores - No Ground



FLEX-OB is our most standard PVC, flexible, oil-resistant, multi-conductor power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. The **FLEX-OB** construction offers the new European VDE-0293-308 color code with no green/yellow ground wire. For use in flexible or stationary applications under medium mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections and control to CNC machines, machine tools, control systems, assembly lines, control panel to machine connections, grinding machines and bottling equipment. Found in plant engineering, paint shops, power stations and refrigeration plants. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Special PVC core insulation
- Color code VDE-0293-308
- For 6 cores and up, use **OB Full Color** chart
- No ground wire
- PVC outer jacket - gray (RAL 7001)
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 4000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 4 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0281, 0293 & 0295
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm²				
1002002	2	0.189" / 4.8mm	7	27
1002003	3	0.201" / 5.1mm	9	30
1002004	4	0.224" / 5.7mm	13	38
1002005	5	0.244" / 6.2mm	16	44
1002007	7	0.291" / 7.4mm	23	54
18 AWG (24/32) 0,75mm²				
1001802	2	0.205" / 5.2mm	9	31
1001803	3	0.217" / 5.5mm	15	36
1001804	4	0.244" / 6.2mm	19	44
1001805	5	0.268" / 6.8mm	24	54
1001807	7	0.319" / 8.1mm	34	74
17 AWG (32/32) 1,00mm²				
1001702	2	0.217" / 5.5mm	13	40
1001703	3	0.236" / 6.0mm	19	48
1001704	4	0.260" / 6.6mm	25	58
1001705	5	0.283" / 7.2mm	32	70
1001707	7	0.339" / 8.6mm	45	95
16 AWG (30/30) 1,50mm²				
1001602	2	0.248" / 6.3mm	19	47
1001603	3	0.264" / 6.7mm	29	60
1001604	4	0.287" / 7.3mm	39	73
1001605	5	0.323" / 8.2mm	48	88
1001607	7	0.386" / 9.8mm	68	123
14 AWG (50/30) 2,50mm²				
1001402	2	0.299" / 7.6mm	32	75
1001403	3	0.327" / 8.3mm	48	99
1001404	4	0.358" / 9.1mm	64	119
1001405	5	0.402" / 10.2mm	80	148
12 AWG (56/28) 4,00mm²				
1001202	2	0.362" / 9.2mm	52	131

Additional sizes may be available.

FLEX-JB Colored Cores with Ground



FLEX-JB is our most standard PVC, flexible, oil-resistant, multi-conductor power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. The **FLEX-JB** construction offers the new European VDE-0293-308 color code including a green/yellow ground wire. For use in flexible or stationary applications under medium mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections and control to CNC machines, machine tools, control systems, assembly lines, control panel to machine connections, grinding machines and bottling equipment. Found in plant engineering, paint shops, power stations and refrigeration plants. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Special PVC core insulation
- Color code VDE-0293-308
- For 6 cores and up, use **JB Full Color** chart
- Ground wire in outer layer
- PVC outer jacket - gray (RAL 7001)
- "OB" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts**
- Test voltage: 4000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 4 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0281, 0293 & 0295
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

** Voltage for 14 AWG (2,50mm²) and Larger is 450/750 Volts.

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm²				
1002002 OB	2	0.189" / 4.8mm	7	27
1012003	3	0.201" / 5.1mm	10	30
1012004	4	0.224" / 5.7mm	13	38
1012005	5	0.244" / 6.2mm	16	44
1012007	7	0.291" / 7.4mm	23	54
1012008	8	0.247" / 8.0mm	25	65
1012010	10	0.346" / 8.8mm	32	77
1012012	12	0.358" / 9.1mm	38	91
1012014	14	0.374" / 9.5mm	45	101
1012016	16	0.398" / 10.1mm	52	117
1012021	21	0.465" / 11.8mm	68	161
1012024	24	0.504" / 12.8mm	86	177
1012027	27	0.519" / 13.2mm	93	195
1012030	30	0.531" / 13.5mm	96	217
1012035	35	0.579" / 14.7mm	113	248
1012040	40	0.622" / 15.8mm	129	291
1012052	52	0.681" / 17.3mm	167	358
18 AWG (24/32) 0,75mm²				
1001802 OB	2	0.205" / 5.2mm	9	31
1011803	3	0.217" / 5.5mm	15	36
1011804	4	0.244" / 6.2mm	19	44
1011805	5	0.268" / 6.8mm	24	54
1011807	7	0.319" / 8.1mm	34	74
1011808	8	0.351" / 8.9mm	39	87
1011809	9	0.370" / 9.4mm	44	102
1011810	10	0.378" / 9.6mm	48	109
1011812	12	0.390" / 9.9mm	58	120
1011815	15	0.441" / 11.2mm	72	148
1011818	18	0.469" / 11.9mm	87	172
1011821	21	0.524" / 13.3mm	101	215
1011825	25	0.571" / 14.5mm	121	245
1011832	32	0.614" / 15.6mm	154	305
1011840	40	0.693" / 17.6mm	199	407
1011850	50	0.780" / 19.8mm	241	493

Sizes continued on next page.

FLEX-JB Colored Cores with Ground



FLEX-JB Sizes Continued. (17, 16 & 14 AWG)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
17 AWG (32/32) 1,00mm²				
1001702 OB	2	0.217" / 5.5mm	13	40
1011703	3	0.236" / 6.0mm	25	48
1011704	4	0.260" / 6.6mm	32	58
1011705	5	0.283" / 7.2mm	39	70
1011707	7	0.339" / 8.6mm	52	95
1011708	8	0.370" / 9.4mm	58	117
1011709	9	0.398" / 10.1mm	64	134
1011710	10	0.409" / 10.4mm	77	146
1011712	12	0.421" / 10.7mm	90	154
1011714	14	0.445" / 11.3mm	103	182
1011716	16	0.476" / 12.1mm	116	201
1011718	18	0.500" / 12.7mm	138	230
1011725	25	0.614" / 15.6mm	174	325
1011734	34	0.685" / 17.4mm	258	436
1011725	25	0.614" / 15.6mm	174	325
1011748	48	0.763" / 19.4mm	309	549
1011756	56	0.846" / 21.5mm	393	684
16 AWG (30/30) 1,50mm²				
1001602 OB	2	0.248" / 6.3mm	19	47
1011603	3	0.264" / 6.7mm	29	60
1011604	4	0.287" / 7.3mm	39	73
1011605	5	0.323" / 8.2mm	48	88
1011607	7	0.386" / 9.8mm	68	123
1011608	8	0.417" / 10.6mm	77	145
1011609	9	0.453" / 11.5mm	87	174
1011610	10	0.461" / 11.7mm	97	185
1011612	12	0.476" / 12.1mm	116	207
1011614	14	0.508" / 12.9mm	135	231
1011616	16	0.535" / 13.6mm	154	259
1011618	18	0.571" / 14.5mm	174	295
1011620	20	0.598" / 15.2mm	193	329
1011625	25	0.701" / 17.8mm	241	416
1011632	32	0.752" / 19.1mm	309	534
1011634	34	0.780" / 19.8mm	330	557
1011642	42	0.843" / 21.4mm	406	675
1011650	50	0.933" / 23.7mm	483	838
14 AWG (50/30) 2,50mm²				
1001402 OB	2	0.358" / 9.1mm	32	75
1011403	3	0.389" / 9.9mm	48	99
1011404	4	0.433" / 11.0mm	64	119
1011405	5	0.472" / 12.0mm	80	148
1011407	7	0.575" / 14.6mm	112	205
1011408	8	0.633" / 16.1mm	129	244
1011412	12	0.708" / 18.0mm	177	330
1011416	16	0.807" / 20.5mm	257	470
1011418	18	0.854" / 21.7mm	289	512
1011421	21	0.933" / 23.7mm	346	606
1011425	25	1.043" / 26.5mm	402	700
1011432	32	1.251" / 31.8mm	513	929
1011450	50	1.496" / 38.0mm	805	1405
1011461	61	1.575" / 40.0mm	981	1844

Sizes continued on next page.

FLEX-JB Colored Cores with Ground



FLEX-JB Sizes Continued. (12 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
12 AWG (56/28) 4,00mm²				
1001202 OB	2	0.409" / 10.4mm	52	131
1011203	3	0.441" / 11.2mm	77	154
1011204	4	0.492" / 12.5mm	103	198
1011205	5	0.547" / 13.9mm	129	242
1011207	7	0.661" / 16.8mm	180	307
1011212	12	0.878" / 22.3mm	309	530
10 AWG (84/28) 6,00mm²				
1011003	3	0.496" / 12.6mm	116	238
1011004	4	0.551" / 14.0mm	154	284
1011005	5	0.610" / 15.5mm	193	352
1011007	7	0.748" / 19.0mm	270	419
8 AWG (80/26) 10,0mm²				
1010803	3	0.630" / 16.0mm	193	362
1010804	4	0.713" / 18.1mm	258	470
1010805	5	0.799" / 20.3mm	322	575
1010807	7	0.909" / 23.1mm	451	741
6 AWG (128/26) 16,0mm²				
1010603	3	0.728" / 18.5mm	309	555
1010604	4	0.818" / 20.8mm	412	694
1010605	5	0.906" / 23.0mm	515	844
4 AWG (200/26) 25,0mm²				
1010403	3	0.917" / 23.3mm	483	795
1010404	4	1.024" / 26.0mm	644	1061
1010405	5	1.142" / 29.0mm	805	1341
2 AWG (280/26) 35,0mm²				
1010203	3	1.047" / 26.6mm	676	1063
1010204	4	1.169" / 29.7mm	901	1412
1010205	5	1.303" / 33.1mm	1127	1766
1 AWG (400/26) 50,0mm²				
1010103	3	1.189" / 30.2mm	966	1714
1010104	4	1.335" / 33.9mm	1287	1972
2/0 AWG (356/24) 70,0mm²				
1012103	3	1.461" / 37.1mm	1352	2134
1012104	4	1.638" / 41.6mm	1803	2743
3/0 AWG (485/24) 95,0mm²				
1013103	3	1.638" / 40.1mm	1835	3136
1013104	4	1.764" / 44.8mm	2447	3715
4/0 AWG (614/24) 120,0mm²				
1014103	3	1.791" / 45.5mm	2318	3776
1014104	4	1.999" / 50.8mm	3090	4695
300 MCM (765/24) 150,0mm²				
1013004	4	2.078" / 52.8mm	3863	5593
350 MCM (944/24) 185,0mm²				
1013504	4	2.591" / 65.8mm	4764	6642
500 MCM (1225/24) 240,0mm²				
1015004	4	2.996" / 76.1mm	6181	7076

* Additional sizes may be available.

SY-JB Steel Shield & Colored Cores



SY-JB is an oil-resistant PVC power and control cable with a galvanized steel wire braid. Suitable for fixed or flexible applications. Commonly used as a measuring, regulating and control cable used in machine tool, plant engineering and construction, conveying and transport systems, assembly and production lines, air conditioning and ventilation systems and paint-spray lines. Designed for free and unrestricted movements without exposure to tensile loads. The galvanized steel braid offers mechanical protection from adverse operating conditions while providing partial shielding from electromagnetic interference (EMI). Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special PVC core insulation
- Color code VDE-0293-308 - Colored Cores
- For 6 cores and up, use **JB Full Color** chart
- Gray PVC inner jacket
- 65% Galvanized Steel Braid
- Transparent PVC outer jacket
- "OB" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Voltage 450/750v (16 AWG & up)
- Test voltage: 4000 volts
- Flexing bending radius: 20 x Ø
- Static bending radius: 6 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: >20 MΩ x km

Approvals:

- VDE-0245, 0281, 0293, 0295
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm2				
1202002 OB	2	0.283" / 7.2mm	7	54
1212003	3	0.303" / 7.7mm	9	62
1212004	4	0.319" / 8.1mm	13	68
1212005	5	0.339" / 8.6mm	16	80
1212007	7	0.386" / 9.8mm	23	105
1212010	10	0.429" / 10.9mm	32	137
1212012	12	0.456" / 11.6mm	39	146
1212014	14	0.472" / 12.0mm	45	163
1212016	16	0.504" / 12.8mm	52	205
1212021	21	0.587" / 14.9mm	68	248
1212024	24	0.614" / 15.6mm	77	270
1212027	27	0.672" / 17.1mm	88	313
1212040	40	0.760" / 19.3mm	129	379
18 AWG (24/32) 0,75mm2				
1201802 OB	2	0.307" / 7.8mm	9	66
1211803	3	0.319" / 8.1mm	15	69
1211804	4	0.339" / 8.6mm	19	82
1211805	5	0.370" / 9.4mm	24	95
1211806	6	0.409" / 10.4mm	28	120
1211807	7	0.421" / 10.7mm	34	124
1211809	9	0.484" / 12.3mm	44	158
1211810	10	0.496" / 12.6mm	48	172
1211812	12	0.531" / 13.5mm	58	196
1211815	15	0.574" / 14.6mm	72	224
1211818	18	0.614" / 15.6mm	87	260
1211821	21	0.681" / 17.3mm	101	318
1211825	25	0.708" / 18.0mm	121	337
1211832	32	0.772" / 19.6mm	155	432
1211861	61	0.999" / 25.4mm	294	725
17 AWG (32/32) 1,00mm2				
1201702 OB	2	0.323" / 8.2mm	13	75
1211703	3	0.335" / 8.5mm	19	89
1211704	4	0.366" / 9.3mm	25	96
1211705	5	0.386" / 9.8mm	32	111
1211706	6	0.464" / 11.8mm	39	147
1211707	7	0.472" / 12.0mm	45	152
1211708	8	0.535" / 13.6mm	52	186
1211710	10	0.551" / 14.0mm	65	211
1211712	12	0.583" / 14.8mm	77	228

Sizes continued on next page.

SY-JB Steel Shield & Colored Cores



SY-JB Sizes Continued. (17 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
17 AWG (32/32) 1,00mm² Cont.				
1211718	18	0.701 ³³ / 17.8mm	116	335
1211720	20	0.720 ³³ / 18.3mm	129	357
1211725	25	0.819 ³³ / 20.8mm	161	445
16 AWG (30/30) 1,50mm²				
1201602 OB	2	0.358 ³³ / 9.1mm	19	87
1211603	3	0.386 ³³ / 9.8mm	29	100
1211604	4	0.425 ³³ / 10.8mm	39	124
1211605	5	0.441 ³³ / 11.2mm	48	138
1211606	6	0.492 ³³ / 12.5mm	59	171
1211607	7	0.520 ³³ / 13.2mm	68	191
1211608	8	0.575 ³³ / 14.6mm	77	228
1211612	12	0.673 ³³ / 17.1mm	116	298
1211614	14	0.693 ³³ / 17.6mm	135	358
1211618	18	0.780 ³³ / 19.8mm	174	398
1211625	25	0.878 ³³ / 22.3mm	241	524
1211632	32	0.988 ³³ / 25.1mm	309	681
14 AWG (50/30) 2,50mm²				
1201402 OB	2	0.425 ³³ / 10.8mm	32	124
1211403	3	0.492 ³³ / 12.5mm	48	166
1211404	4	0.528 ³³ / 13.4mm	64	195
1211405	5	0.571 ³³ / 14.5mm	80	233
1211407	7	0.610 ³³ / 15.5mm	113	282
12 AWG (56/28) 4,00mm²				
1201202 OB	2	0.567 ³³ / 14.7mm	52	221
1211203	3	0.598 ³³ / 15.2mm	78	235
1211204	4	0.622 ³³ / 15.8mm	103	287
1211205	5	0.669 ³³ / 17.0mm	129	338
1211207	7	0.740 ³³ / 18.8mm	180	429
10 AWG (84/28) 6,00mm²				
1211003	3	0.736 ³³ / 18.7mm	116	364
1211004	4	0.709 ³³ / 18.0mm	154	383
1211005	5	0.756 ³³ / 19.2mm	193	450
1211007	7	0.843 ³³ / 21.4mm	270	567
8 AWG (80/26) 10,0mm²				
1210804	4	0.921 ³³ / 23.4mm	258	633
1210805	5	0.984 ³³ / 25.0mm	322	714
1210807	7	1.157 ³³ / 29.4mm	451	1040
6 AWG (128/26) 16,0mm²				
1210604	4	1.051 ³³ / 26.7mm	412	912
1210605	5	1.205 ³³ / 30.6mm	515	1167
1210607	7	1.299 ³³ / 33.0mm	721	1453
4 AWG (200/26) 25,0mm²				
1210404	4	1.220 ³³ / 31.0mm	644	1355
1210405	5	1.311 ³³ / 33.3mm	805	1653
2 AWG (280/26) 35,0mm²				
1210204	4	1.280 ³³ / 32.5mm	901	1724
1210205	5	1.433 ³³ / 36.4mm	1127	2136
1 AWG (400/26) 50,0mm²				
1210104	4	1.516 ³³ / 38.5mm	1288	2356
1210105	5	1.701 ³³ / 43.2mm	1610	2849
2/0 AWG (356/24) 70,0mm²				
1212104	4	1.843 ³³ / 46.8mm	1803	3226
1212105	5	2.039 ³³ / 51.8mm	2254	3944
3/0 AWG (485/24) 95,0mm²				
1213104	4	2.028 ³³ / 51.5mm	2447	4266
1213105	5	2.220 ³³ / 56.4mm	3059	5413
4/0 AWG (614/24) 120,0mm²				
1214104	4	2.217 ³³ / 56.3mm	3091	5480

Additional sizes may be available.

CY-JB Copper Shield & Colored Cores



CY-JB is an oil-resistant PVC power and control cable with a tinned copper wire braid. Suitable for fixed or flexible applications. Commonly used as a measuring, regulating and control cable used in machine tool, plant engineering and construction, conveying and transport systems, assembly and production lines, air conditioning and ventilation systems and paint-spray lines. Designed for free and unrestricted movements without exposure to tensile loads. The tinned copper braid provides interference-free data and signal transmissions and greater electromagnetic protection from electrical drives and frequency converters. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special PVC core insulation
- Color code VDE-0293-308 - Colored Cores
- For 6 cores and up, use **JB Full Color** chart
- Gray PVC inner jacket
- 85% Tinned Copper Braid
- Transparent PVC outer jacket
- "OB" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Voltage 450/750v (16 AWG and up)
- Test voltage: 4000 volts
- Flexing bending radius: 20 x Ø
- Static bending radius: 6 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: >20 MΩ x km

Approvals:

- VDE-0245, 0281, 0293, 0295
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm2				
1302002 OB	2	0.272" / 6.9mm	25	45
1312003	3	0.283" / 7.2mm	31	56
1312004	4	0.307" / 7.8mm	37	63
1312005	5	0.327" / 8.3mm	44	72
1312007	7	0.374" / 9.5mm	54	91
18 AWG (24/32) 0,75mm2				
1301802 OB	2	0.299" / 7.6mm	29	58
1311803	3	0.307" / 7.8mm	39	66
1311804	4	0.327" / 8.3mm	43	76
1311805	5	0.358" / 9.1mm	52	87
1311807	7	0.409" / 10.4mm	68	105
17 AWG (32/32) 1,00mm2				
1301702 OB	2	0.311" / 7.9mm	37	65
1311703	3	0.323" / 8.2mm	44	69
1311704	4	0.350" / 8.9mm	52	98
1311705	5	0.374" / 9.5mm	60	112
1311707	7	0.433" / 11.0mm	85	147
16 AWG (30/30) 1,50mm2				
1301602 OB	2	0.331" / 8.4mm	42	87
1311603	3	0.354" / 9.0mm	51	102
1311604	4	0.378" / 9.6mm	64	113
1311605	5	0.413" / 10.5mm	74	135
1311607	7	0.476" / 12.1mm	99	204
14 AWG (50/30) 2,50mm2				
1301402 OB	2	0.394" / 10.0mm	64	121
1311403	3	0.421" / 10.7mm	99	145
1311404	4	0.449" / 11.4mm	117	179
1311405	5	0.492" / 12.5mm	134	233
1311407	7	0.591" / 15.0mm	158	273
12 AWG (56/28) 4,00mm2				
1301202 OB	2	0.457" / 11.6mm	91	203
1311203	3	0.484" / 12.3mm	119	228
1311204	4	0.528" / 13.4mm	148	275
1311205	5	0.583" / 14.8mm	220	337

Sizes continued on next page.

CY-JB Copper Shield & Colored Cores



CY-JB Sizes Continued. (10 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
10 AWG (84/28) 6,00mm²				
1301002 OB	2	0.531" / 13.5mm	117	235
1311003	3	0.559" / 14.2mm	161	302
1311004	4	0.614" / 15.6mm	205	375
1311005	5	0.673" / 17.1mm	296	471
8 AWG (80/26) 10,0mm²				
1300802 OB	2	0.661" / 16.8mm	178	335
1310803	3	0.701" / 17.8mm	248	502
1310804	4	0.776" / 19.7mm	325	684
1310805	5	0.850" / 21.6mm	409	748
6 AWG (128/26) 16,0mm²				
1310604	4	0.890" / 22.6mm	832	926
1310605	5	0.992" / 25.2mm	933	1042
4 AWG (200/26) 25,0mm²				
1310404	4	1.138" / 28.9mm	879	1268
1310405	5	1.252" / 31.8mm	1234	1523
2 AWG (280/26) 35,0mm²				
1310204	4	1.268" / 32.2mm	1080	1603
1310205	5	1.433" / 36.4mm	1352	1935
1 AWG (400/26) 50,0mm²				
1310104	4	1.504" / 38.2mm	1489	2223
1310105	5	1.697" / 43.1mm	1932	2784
2/0 AWG (356/24) 70,0mm²				
1312104	4	1.843" / 46.8mm	2073	3085
1312105	5	2.039" / 51.8mm	2704	3857
3/0 AWG (485/24) 95,0mm²				
1313104	4	2.008" / 51.0mm	2723	4065
1313105	5	2.209" / 56.1mm	3517	5084
4/0 AWG (614/24) 120,0mm²				
1314104	4	2.205" / 56.0mm	3554	4906
300 MCM (765/24) 150,0mm²				
1313004	4	2.504" / 63.6mm	4544	6492
350 MCM (944/24) 185,0mm²				
1313504	4	2.677" / 68.0mm	5646	7458

* Additional sizes may be available.

POWER-JB 0,6/1 kV



POWER-JB is a flexible 600/1000v, oil & weather resistant, PVC multi-conductor power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. The **Power-JB** construction offers the new European VDE-0293-308 color code including a green/yellow ground wire. For use in flexible or stationary applications under medium mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include machine tools, measuring and control systems, air condition installations, conveyor belts, production lines, plant and appliance construction and other electrical applications requiring a greater voltage. Found in steel production plants, power stations, rolling mills, paint spray lines and refrigeration plants. Outdoor installation is permitted due to the weather proof UV-resistant PVC outer jacket and cold flexing at -40° Deg C.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Special PVC core insulation
- Color code VDE-0293-308
- For 6 cores and up, use **JB Full Color** chart
- Ground wire in outer layer
- Black PVC outer jacket (RAL 9005)
- "OB" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 600/1000 volts
- Test voltage: 4000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 4 x Ø
- Flexing temp: -30° C to +70° C
- Static temp: -40° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0250, 0281, 0293, 0295
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm²				
1102002 OB	2	0.244" / 6.2mm	7	38
1112003	3	0.268" / 6.8mm	9	46
1112004	4	0.299" / 7.6mm	13	67
1112005	5	0.323" / 8.2mm	16	78
1112007	7	0.386" / 9.8mm	23	93
1112012	12	0.480" / 12.2mm	39	134
17 AWG (32/32) 1,00mm²				
1101702 OB	2	0.205" / 8.6mm	13	66
1111703	3	0.217" / 9.0mm	19	75
1111704	4	0.244" / 9.6mm	25	88
1111705	5	0.268" / 10.4mm	32	102
1111707	7	0.319" / 11.1mm	45	131
1111712	12	0.390" / 14.0mm	77	192
16 AWG (30/30) 1,50mm²				
1101602 OB	2	0.378" / 9.6mm	19	83
1111603	3	0.398" / 10.1mm	29	97
1111604	4	0.425" / 10.8mm	39	114
1111605	5	0.461" / 11.7mm	46	133
1111607	7	0.496" / 12.6mm	68	175
1111612	12	0.634" / 16.1mm	116	268
14 AWG (50/30) 2,50mm²				
1101402 OB	2	0.425" / 10.8mm	32	99
1111403	3	0.445" / 11.3mm	48	122
1111404	4	0.480" / 12.2mm	64	151
1111405	5	0.524" / 13.3mm	80	178
1111407	7	0.567" / 14.4mm	113	237
1111412	12	0.736" / 18.7mm	193	362
12 AWG (56/28) 4,00mm²				
1111204	4	0.543" / 13.8mm	103	217
10 AWG (84/28) 6,00mm²				
1111004	4	0.594" / 15.1mm	154	296

Sizes continued on next page.

POWER-JB 0,6/1 kV



POWER-JB Sizes Continued. (8 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
8 AWG (80/26) 10,0mm²				
1110804	4	0.736" / 18.7mm	258	474
6 AWG (128/26) 16,0mm²				
1110604	4	0.839" / 21.3mm	412	738
4 AWG (200/26) 25,0mm²				
1110404	4	1.031" / 26.2mm	644	1073
2 AWG (280/26) 35,0mm²				
1110204	4	1.146" / 29.1mm	901	1610
1 AWG (400/26) 50,0mm²				
1110104	4	1.402" / 35.6mm	1288	2280
2/0 AWG (356/24) 70,0mm²				
1112104	4	1.602" / 40.7mm	1835	3387
3/0 AWG (485/24) 95,0mm²				
1113104	4	1.843" / 46.8mm	2447	4031
4/0 AWG (614/24) 120,0mm²				
1114104	4	2.106" / 53.5mm	3091	5030

* Additional sizes may be available.

FLEX-OZ Numbered Cores - No Ground



FLEX-OZ is our most standard PVC, flexible, oil-resistant, multi-conductor power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. The **FLEX-OZ** construction offers all black and numbered cores with no green/yellow ground wire. For use in flexible or stationary applications under medium mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections and control to CNC machines, machine tools, control systems, assembly lines, control panel to machine connections, grinding machines and bottling equipment. Found in plant engineering, paint shops, power stations and refrigeration plants. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special PVC core insulation
- Color code VDE-0293 - **No Ground Wire**
- No ground wire
- PVC outer jacket - gray (RAL 7001)
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 4000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 4 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0281, 0293 & 0295
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm²				
1022002	2	0.189" / 4.8mm	7	27
1022003	3	0.201" / 5.1mm	9	30
1022004	4	0.224" / 5.7mm	13	38
1022005	5	0.244" / 6.2mm	16	44
1022007	7	0.291" / 7.4mm	23	54
1022012	12	0.358" / 9.1mm	39	91
18 AWG (24/32) 0,75mm²				
1021802	2	0.205" / 5.2mm	9	31
1021803	3	0.217" / 5.5mm	15	36
1021804	4	0.244" / 6.2mm	19	44
1021805	5	0.268" / 6.8mm	24	54
1021807	7	0.319" / 8.1mm	34	74
1021812	12	0.390" / 9.9mm	58	120
17 AWG (32/32) 1,00mm²				
1021702	2	0.217" / 5.5mm	13	40
1021703	3	0.236" / 6.0mm	19	48
1021704	4	0.260" / 6.6mm	25	58
1021705	5	0.283" / 7.2mm	32	70
1021707	7	0.339" / 8.6mm	45	95
1021712	12	0.421" / 10.7mm	77	154
1021718	18	0.500" / 12.7mm	116	230
1021725	25	0.614" / 15.6mm	161	325
16 AWG (30/30) 1,50mm²				
1021602	2	0.248" / 6.3mm	19	47
1021603	3	0.264" / 6.7mm	29	60
1021604	4	0.287" / 7.3mm	39	73
1021605	5	0.323" / 8.2mm	48	88
1021607	7	0.386" / 9.8mm	68	123
1021612	12	0.476" / 12.1mm	116	207
14 AWG (50/30) 2,50mm²				
1021402	2	0.299" / 7.6mm	32	75
1021403	3	0.327" / 8.3mm	48	99
1021404	4	0.358" / 9.1mm	64	119
1021405	5	0.402" / 10.2mm	80	148
1021407	7	0.476" / 12.1mm	113	205
12 AWG (56/28) 4,00mm²				
1021202	2	0.362" / 9.2mm	52	131

Additional Sizes may be available.

FLEX-JZ Black & Numbered Cores



FLEX-JZ is our most standard PVC, flexible, oil-resistant, multi-conductor power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. For use in flexible or stationary applications under medium mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections and control to CNC machines, machine tools, control systems, assembly lines, control panel to machine connections, grinding machines and bottling equipment. Found in plant engineering, paint shops, power stations and refrigeration plants. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special PVC core insulation
- Color code VDE-0293 - black & numbered
- Ground wire in outer layer
- PVC outer jacket - gray (RAL 7001)
- "OZ" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 4000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 4 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0281, 0293 & 0295
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm²				
1022002 OZ	2	0.189" / 4.8mm	7	27
1032003	3	0.201" / 5.1mm	10	30
1032004	4	0.224" / 5.7mm	13	38
1032005	5	0.244" / 6.2mm	16	44
1032007	7	0.291" / 7.4mm	23	54
1032012	12	0.358" / 9.1mm	38	91
1032014	14	0.374" / 9.5mm	45	101
1032016	16	0.398" / 10.1mm	52	117
1032018	18	0.421" / 10.7mm	58	131
1032021	21	0.465" / 11.8mm	68	161
1032025	25	0.512" / 13.0mm	80	181
1032030	30	0.531" / 13.5mm	96	217
1032034	34	0.571" / 14.5mm	109	242
1032040	40	0.622" / 15.8mm	129	291
1032050	50	0.681" / 17.3mm	161	344
1032061	61	0.728" / 18.5mm	197	404
1032065	65	0.764" / 19.4mm	209	457
1032080	80	0.839" / 21.3mm	258	523
1032000	100	0.933" / 23.7mm	322	657
18 AWG (24/32) 0,75mm²				
1021802 OZ	2	0.205" / 5.2mm	9	31
1031803	3	0.217" / 5.5mm	15	36
1031804	4	0.244" / 6.2mm	19	44
1031805	5	0.268" / 6.8mm	24	54
1031807	7	0.319" / 8.1mm	34	74
1031808	8	0.351" / 8.9mm	39	87
1031809	9	0.370" / 9.4mm	44	102
1031810	10	0.378" / 9.6mm	48	109
1031812	12	0.390" / 9.9mm	58	120
1031815	15	0.441" / 11.2mm	72	148
1031818	18	0.469" / 11.9mm	87	172
1031821	21	0.524" / 13.3mm	101	215
1031825	25	0.571" / 14.5mm	121	245
1031830	30	0.602" / 15.3mm	148	302
1031834	34	0.646" / 16.4mm	164	342
1031841	41	0.693" / 17.6mm	199	407
1031850	50	0.780" / 19.8mm	241	493
1031865	65	0.846" / 21.5mm	314	600
1031880	80	0.929" / 23.6mm	386	718
1031800	100	1.031" / 26.2mm	482	887

Sizes continued on next page.

FLEX-JZ Black & Numbered Cores



FLEX-JZ Sizes Continued. (17 & 16 AWG)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
17 AWG (32/32) 1,00mm2				
1021702 OZ	2	0.217" / 5.5mm	13	40
1031703	3	0.236" / 6.0mm	25	48
1031704	4	0.260" / 6.6mm	32	58
1031705	5	0.283" / 7.2mm	39	70
1031706	6	0.315" / 8.0mm	45	84
1031707	7	0.339" / 8.6mm	52	95
1031708	8	0.370" / 9.4mm	58	117
1031709	9	0.398" / 10.1mm	64	134
1031710	10	0.409" / 10.4mm	77	146
1031712	12	0.421" / 10.7mm	90	154
1031714	14	0.445" / 11.3mm	103	182
1031716	16	0.476" / 12.1mm	116	201
1031718	18	0.500" / 12.7mm	138	230
1031721	21	0.555" / 14.1mm	161	282
1031725	25	0.614" / 15.6mm	174	325
1031727	27	0.622" / 15.8mm	207	358
1031730	30	0.634" / 16.1mm	219	369
1031734	34	0.685" / 17.4mm	258	436
1031740	40	0.744" / 18.9mm	270	506
1031742	42	0.764" / 19.4mm	322	544
1031750	50	0.827" / 21.0mm	361	628
1031756	56	0.846" / 21.5mm	393	684
1031765	65	0.898" / 22.8mm	421	791
1031780	80	1.000" / 25.4mm	527	868
1031700	100	1.110" / 28.2mm	644	1103
16 AWG (30/30) 1,50mm2				
1021602 OZ	2	0.248" / 6.3mm	19	47
1031603	3	0.264" / 6.7mm	29	60
1031604	4	0.287" / 7.3mm	39	73
1031605	5	0.323" / 8.2mm	48	88
1031607	7	0.386" / 9.8mm	68	123
1031608	8	0.417" / 10.6mm	77	145
1031609	9	0.453" / 11.5mm	87	174
1031610	10	0.461" / 11.7mm	97	185
1031612	12	0.476" / 12.1mm	116	207
1031614	14	0.508" / 12.9mm	135	231
1031616	16	0.535" / 13.6mm	154	259
1031618	18	0.571" / 14.5mm	174	295
1031621	21	0.634" / 16.1mm	203	372
1031625	25	0.701" / 17.8mm	241	416
1031630	30	0.736" / 18.7mm	288	523
1031632	32	0.752" / 19.1mm	309	534
1031634	34	0.780" / 19.8mm	330	557
1031641	41	0.831" / 21.1mm	386	668
1031642	42	0.843" / 21.4mm	406	675
1031650	50	0.933" / 23.7mm	483	838
1031661	61	0.996" / 25.3mm	589	966
1031665	65	1.028" / 26.1mm	628	1075
1031680	80	1.142" / 29.0mm	773	1255
1031600	100	1.280" / 32.5mm	966	1578

Sizes continued on next page.

FLEX-JZ Black & Numbered Cores



FLEX-JZ Sizes Continued. (14 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
14 AWG (50/30) 2,50mm²				
1021402 OZ	2	0.299" / 7.6mm	32	75
1031403	3	0.327" / 8.3mm	48	99
1031404	4	0.358" / 9.1mm	64	119
1031405	5	0.402" / 10.2mm	80	148
1031407	7	0.476" / 12.1mm	113	205
1031408	8	0.520" / 13.2mm	129	244
1031412	12	0.598" / 15.2mm	193	334
1031414	14	0.634" / 16.1mm	225	382
1031418	18	0.713" / 18.1mm	290	512
1031421	21	0.803" / 20.4mm	338	613
1031425	25	0.874" / 22.2mm	402	700
1031434	34	0.988" / 25.1mm	547	986
1031442	42	1.071" / 27.2mm	676	1201
1031450	50	1.181" / 30.0mm	805	1405
12 AWG (56/28) 4,00mm²				
1021202 OZ	2	0.362" / 9.2mm	52	131
1031203	3	0.390" / 9.9mm	77	154
1031204	4	0.433" / 11.0mm	103	198
1031205	5	0.476" / 12.1mm	129	242
1031207	7	0.524" / 13.3mm	180	307
1031212	12	0.720" / 18.3mm	309	530
10 AWG (84/28) 6,00mm²				
1031003	3	0.461" / 11.7mm	116	238
1031004	4	0.512" / 13.0mm	154	284
1031005	5	0.571" / 14.5mm	193	352
1031007	7	0.634" / 16.1mm	270	419
8 AWG (80/26) 10,0mm²				
1030803	3	0.591" / 15.0mm	193	362
1030804	4	0.661" / 16.8mm	258	470
1030805	5	0.736" / 18.7mm	322	575
1030807	7	0.811" / 20.6mm	451	741
6 AWG (128/26) 16,0mm²				
1030603	3	0.693" / 17.6mm	309	555
1030604	4	0.776" / 19.7mm	412	694
1030605	5	0.862" / 21.9mm	515	844
1030607	7	0.961" / 24.4mm	721	1194
4 AWG (200/26) 25,0mm²				
1030403	3	0.886" / 22.5mm	483	795
1030404	4	0.992" / 25.2mm	644	1061
1030405	5	1.098" / 27.9mm	805	1341
1030407	7	1.220" / 31.0mm	1127	1895
2 AWG (280/26) 35,0mm²				
1030203	3	0.992" / 25.2mm	676	1063
1030204	4	1.102" / 28.0mm	901	1412
1030205	5	1.153" / 29.3mm	1127	1766

** for sizes larger than #2 AWG (35,0mm²) see product FLEX-JB (101)

* Additional sizes may be available.

Flexible Control Cables

SY-JZ Steel Shield & Numbered Cores



SY-JZ is an oil-resistant PVC power and control cable with a galvanized steel wire braid. Suitable for fixed or flexible applications. Commonly used as a measuring, regulating and control cable used in machine tool, plant engineering and construction, conveying and transport systems, assembly and production lines, air conditioning and ventilation systems and paint-spray lines. Designed for free and unrestricted movements without exposure to tensile loads. The galvanized steel braid offers mechanical protection from adverse operating conditions while providing partial shielding from electromagnetic interference (EMI). Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special PVC core insulation
- Color code VDE-0293 - black & numbered
- Gray PVC inner jacket
- 65% Galvanized Steel Braid
- Transparent PVC outer jacket
- "OZ" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 4000 volts
- Flexing bending radius: 20 x Ø
- Static bending radius: 6 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: >20 MΩ x km

Approvals:

- VDE-0245, 0281, 0293, 0295
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm²				
1222002 OZ	2	0.283" / 7.2mm	7	54
1232003	3	0.303" / 7.7mm	9	62
1232004	4	0.319" / 8.1mm	13	68
1232005	5	0.339" / 8.6mm	16	80
1232007	7	0.386" / 9.8mm	23	105
1232010	10	0.429" / 10.9mm	32	137
1232012	12	0.456" / 11.6mm	39	146
1232014	14	0.472" / 12.0mm	45	163
1232018	18	0.531" / 13.5mm	58	228
1232021	21	0.587" / 14.9mm	68	248
1232025	25	0.626" / 15.9mm	80	272
1232030	30	0.646" / 16.4mm	97	294
1232035	35	0.689" / 17.5mm	109	334
1232040	40	0.760" / 19.3mm	129	379
1232052	52	0.815" / 20.7mm	161	463
1232061	61	0.909" / 23.1mm	197	565
1232080	80	1.011" / 25.7mm	258	704
18 AWG (24/32) 0,75mm²				
1221802 OZ	2	0.307" / 7.8mm	9	60
1231803	3	0.319" / 8.1mm	15	69
1231804	4	0.339" / 8.6mm	19	82
1231805	5	0.370" / 9.4mm	24	95
1231807	7	0.421" / 10.7mm	34	124
1231809	9	0.484" / 12.3mm	44	158
1231810	10	0.496" / 12.6mm	48	172
1231812	12	0.531" / 13.5mm	58	196
1231815	15	0.574" / 14.6mm	72	224
1231818	18	0.614" / 15.6mm	87	260
1231821	21	0.681" / 17.3mm	101	318
1231825	25	0.708" / 18.0mm	121	337
1231834	34	0.795" / 20.2mm	164	445
1231841	41	0.850" / 21.6mm	199	497
1231850	50	0.944" / 24.0mm	241	620
1231861	61	0.999" / 25.4mm	294	724
17 AWG (32/32) 1,00mm²				
1221702 OZ	2	0.323" / 8.2mm	13	75
1231703	3	0.335" / 8.5mm	19	89
1231704	4	0.366" / 9.3mm	25	96
1231705	5	0.386" / 9.8mm	32	111
1231707	7	0.472" / 12.0mm	45	152

Sizes continued on next page.

SY-JZ Steel Shield & Numbered Cores



SY-JZ Sizes Continued. (17 AWG to 10 AWG)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
17 AWG (32/32) 1,00mm2 Cont.				
1231712	12	0.583" / 14.8mm	77	228
1231714	14	0.638" / 16.2mm	90	282
1231718	18	0.701" / 17.8mm	116	335
1231720	20	0.720" / 18.3mm	129	357
1231725	25	0.819" / 20.8mm	161	445
1231734	34	0.870" / 22.1mm	219	567
1231736	36	0.906" / 23.0mm	232	575
1231741	41	0.965" / 24.5mm	264	666
1231750	50	1.000" / 25.4mm	322	746
1231756	56	1.024" / 26.0mm	361	822
1231761	61	1.071" / 27.2mm	393	876
1231765	65	1.118" / 28.4mm	419	1033
1231780	80	1.217" / 30.9mm	527	1174
1231700	100	1.386" / 35.2mm	644	1308
16 AWG (30/30) 1,50mm2				
1221602 OZ	2	0.358" / 9.1mm	19	87
1231603	3	0.386" / 9.8mm	29	100
1231604	4	0.425" / 10.8mm	39	124
1231605	5	0.441" / 11.2mm	48	138
1231607	7	0.520" / 13.2mm	68	191
1231608	8	0.575" / 14.6mm	77	228
1231609	9	0.598" / 15.2mm	87	233
1231610	10	0.650" / 16.5mm	97	280
1231612	12	0.673" / 17.1mm	116	298
1231614	14	0.693" / 17.6mm	135	358
1231618	18	0.780" / 19.8mm	174	398
1231625	25	0.878" / 22.3mm	241	524
1231632	32	0.988" / 25.1mm	309	681
1231634	34	1.024" / 26.0mm	329	754
1231642	42	1.142" / 29.0mm	406	940
1231650	50	1.189" / 30.2mm	483	1062
1231661	61	1.252" / 31.8mm	589	1214
1231680	80	1.433" / 36.4mm	773	1553
1231600	100	1.630" / 41.4mm	966	1945
14 AWG (50/30) 2,50mm2				
1221402 OZ	2	0.425" / 10.8mm	32	124
1231403	3	0.492" / 12.5mm	48	166
1231404	4	0.528" / 13.4mm	64	195
1231405	5	0.571" / 14.5mm	80	233
1231407	7	0.610" / 15.5mm	113	282
1231412	12	0.768" / 19.5mm	193	443
1231414	14	0.819" / 20.8mm	225	503
1231418	18	0.882" / 22.4mm	290	599
1231425	25	1.165" / 29.6mm	402	978
1231430	30	1.181" / 30.0mm	483	1131
1231434	34	1.303" / 33.1mm	589	1254
1231450	50	1.551" / 39.4mm	773	1476
1231461	61	1.634" / 41.5mm	966	2012
12 AWG (56/28) 4,00mm2				
1231203	3	0.567" / 14.4mm	78	235
1231204	4	0.622" / 15.8mm	103	287
1231205	5	0.669" / 17.0mm	129	338
1231207	7	0.740" / 18.8mm	180	429
10 AWG (84/28) 6,00mm2				
1231004	4	0.709" / 18.0mm	154	383
1231005	5	0.756" / 19.2mm	193	450
1231007	7	0.843" / 21.4mm	270	567

Sizes continued on next page.

SY-JZ Steel Shield & Numbered Cores



SY-JZ Sizes Continued. (8 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
8 AWG (80/26) 10,0mm²				
1230804	4	0.921" / 23.4mm	258	633
1230805	5	0.984" / 25.0mm	322	714
1230807	7	1.157" / 29.4mm	451	1040
6 AWG (128/26) 16,0mm²				
1230604	4	1.051" / 26.7mm	412	912
1230605	5	1.205" / 30.6mm	515	1167
1230607	7	1.299" / 33.0mm	721	1453
4 AWG (200/26) 25,0mm²				
1230404	4	1.220" / 31.0mm	644	1355
1230405	5	1.311" / 33.3mm	805	1653
2 AWG (280/26) 35,0mm²				
1230204	4	1.280" / 32.5mm	901	1724
1230205	5	1.433" / 36.4mm	1127	2136
1 AWG (400/26) 50,0mm²				
1230104	4	1.516" / 38.5mm	1288	2356
1230105	5	1.701" / 43.2mm	1610	2849
2/0 AWG (356/24) 70,0mm²				
1232104	4	1.843" / 46.8mm	1803	3226
1232105	5	2.039" / 51.8mm	2254	3944
3/0 AWG (485/24) 95,0mm²				
1233104	4	2.028" / 51.5mm	2447	4266
1233105	5	2.220" / 56.4mm	3059	5413
4/0 AWG (614/24) 120,0mm²				
1234104	4	2.217" / 56.3mm	3091	5480
300 MCM (765/24) 150,0mm²				
1233004	4	2.500" / 63.5mm	3863	6687

* Additional sizes may be available.

CY-OZ Copper Shield & Black Cores



CY-OZ is an oil-resistant PVC power and control cable with a tinned copper wire braid. Suitable for fixed or flexible applications. The **CY-OZ** offers all black and numbered cores with no green/yellow ground wire. Commonly used as a measuring, regulating and control cable used in machine tool, plant engineering and construction, conveying and transport systems, assembly and production lines, air conditioning and ventilation systems and paint-spray lines. Designed for free and unrestricted movements without exposure to tensile loads. The tinned copper braid provides interference-free data and signal transmissions and greater electromagnetic protection from electrical drives and frequency converters. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Special PVC core insulation
- Color code VDE-0293 - **No Ground Wire**
- Gray PVC inner jacket
- 85% Tinned Copper Braid
- Transparent PVC outer jacket
- "OZ" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 4000 volts
- Flexing bending radius: 20 x Ø
- Static bending radius: 6 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: >20 MΩ x km

Approvals:

- VDE-0245, 0281, 0293, 0295
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm2				
1322002	2	0.272" / 6.9mm	25	45
1322003	3	0.283" / 7.2mm	31	56
1322004	4	0.307" / 7.8mm	37	63
1322005	5	0.327" / 8.3mm	44	72
1322007	7	0.374" / 9.5mm	54	91
1322012	12	0.445" / 11.3mm	93	127
18 AWG (24/32) 0,75mm2				
1321802	2	0.299" / 7.6mm	29	58
1321803	3	0.307" / 7.8mm	39	66
1321804	4	0.327" / 8.3mm	43	76
1321805	5	0.358" / 9.1mm	52	87
1321807	7	0.409" / 10.4mm	68	105
1321812	12	0.492" / 12.5mm	133	147
1321818	18	0.563" / 14.3mm	163	214
17 AWG (32/32) 1,00mm2				
1321702	2	0.311" / 7.9mm	37	65
1321703	3	0.323" / 8.2mm	44	69
1321704	4	0.350" / 8.9mm	52	98
1321705	5	0.374" / 9.5mm	60	112
16 AWG (30/30) 1,50mm2				
1321602	2	0.331" / 8.4mm	42	87
1321603	3	0.354" / 9.0mm	51	102
1321604	4	0.378" / 9.6mm	64	113
1321605	5	0.413" / 10.5mm	74	135
1321607	7	0.476" / 12.1mm	99	204
14 AWG (50/30) 2,50mm2				
1321402	2	0.394" / 10.0mm	64	121
12 AWG (56/28) 4,00mm2				
1321202	2	0.457" / 11.6mm	91	203
10 AWG (84/28) 6,00mm2				
1321002	2	0.531" / 13.5mm	117	235
8 AWG (80/26) 10,0mm2				
1320802	2	0.661" / 16.8mm	178	335

* Additional sizes may be available.

CY-JZ Copper Shield & Numbered Cores



CY-JZ is an oil-resistant PVC power and control cable with a tinned copper wire braid. Suitable for fixed or flexible applications. Commonly used as a measuring, regulating and control cable used in machine tool, plant engineering and construction, conveying and transport systems, assembly and production lines, air conditioning and ventilation systems and paint-spray lines. Designed for free and unrestricted movements without exposure to tensile loads. The tinned copper braid provides interference-free data and signal transmissions and greater electromagnetic protection from electrical drives and frequency converters. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special PVC core insulation
- Color code VDE-0293 - black & numbered
- Gray PVC inner jacket
- 85% Tinned Copper Braid
- Transparent PVC outer jacket
- "OZ" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 4000 volts
- Flexing bending radius: 20 x Ø
- Static bending radius: 6 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: >20 MΩ x km

Approvals:

- VDE-0245, 0281, 0293, 0295
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm²				
1322002 OZ	2	0.272" / 6.9mm	25	45
1332003	3	0.283" / 7.2mm	31	56
1332004	4	0.307" / 7.8mm	37	63
1332005	5	0.327" / 8.3mm	44	72
1332007	7	0.374" / 9.5mm	54	91
1332012	12	0.445" / 11.3mm	93	127
1332014	14	0.468" / 11.9mm	98	135
1332018	18	0.516" / 13.1mm	105	186
1332021	21	0.571" / 14.5mm	127	222
1332025	25	0.618" / 15.7mm	168	273
1332030	30	0.630" / 16.0mm	199	349
1332036	36	0.685" / 17.4mm	215	392
1332040	40	0.744" / 18.9mm	230	439
1332050	50	0.823" / 20.9mm	273	496
1332061	61	0.925" / 23.5mm	294	523
1332080	80	0.968" / 24.6mm	370	591
1332000	100	1.063" / 27.0mm	456	738
18 AWG (24/32) 0,75mm²				
1321802 OZ	2	0.299" / 7.6mm	29	58
1331803	3	0.307" / 7.8mm	39	66
1331804	4	0.327" / 8.3mm	43	76
1331805	5	0.358" / 9.1mm	52	87
1331807	7	0.409" / 10.4mm	68	105
1331812	12	0.492" / 12.5mm	133	147
1331815	15	0.535" / 13.6mm	142	171
1331818	18	0.563" / 14.3mm	163	214
1331821	21	0.622" / 15.8mm	167	305
1331825	25	0.685" / 17.4mm	206	341
1331834	34	0.752" / 19.1mm	277	403
1331841	41	0.835" / 21.2mm	327	651
1331850	50	0.913" / 23.2mm	358	738
1331861	61	0.984" / 25.0mm	392	617
1331880	80	1.106" / 28.1mm	510	805
1331800	100	1.204" / 30.6mm	652	1006
17 AWG (32/32) 1,00mm²				
1321702 OZ	2	0.311" / 7.9mm	37	65
1331703	3	0.323" / 8.2mm	44	69
1331704	4	0.350" / 8.9mm	52	98
1331705	5	0.374" / 9.5mm	60	112

Sizes continued on next page.

CY-JZ Copper Shield & Numbered Cores



CY-JZ Sizes Continued. (17 AWG to 8 AWG)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
17 AWG (32/32) 1,00mm2 Cont.				
1331707	7	0.433" / 11.0mm	85	147
1331712	12	0.516" / 13.1mm	126	235
1331714	14	0.551" / 14.0mm	144	268
1331718	18	0.606" / 15.4mm	161	345
1331720	20	0.630" / 16.0mm	192	366
1331725	25	0.720" / 18.3mm	229	462
1331734	34	0.795" / 20.3mm	295	610
1331741	41	0.870" / 22.1mm	343	732
1331750	50	0.945" / 24.0mm	420	882
1331761	61	1.031" / 26.2mm	476	919
1331780	80	1.154" / 29.3mm	630	1080
1331700	100	1.303" / 33.1mm	791	1234
16 AWG (30/30) 1,50mm2				
1321602 OZ	2	0.331" / 8.4mm	42	87
1331603	3	0.354" / 9.0mm	51	102
1331604	4	0.378" / 9.6mm	64	113
1331605	5	0.413" / 10.5mm	74	135
1331607	7	0.476" / 12.1mm	99	204
1331608	8	0.527" / 13.4mm	115	291
1331609	9	0.555" / 14.1mm	123	429
1331610	10	0.574" / 14.6mm	129	204
1331612	12	0.606" / 15.4mm	170	291
1331614	14	0.629" / 16.0mm	182	295
1331618	18	0.673" / 17.1mm	236	429
1331625	25	0.815" / 20.7mm	330	540
1331634	34	0.898" / 22.8mm	433	647
1331641	41	0.976" / 24.8mm	490	926
1331650	50	1.055" / 26.8mm	655	1123
1331661	61	1.165" / 29.6mm	751	1207
1331680	80	1.307" / 33.2mm	912	1543
1331600	100	1.433" / 36.4mm	1134	1744
14 AWG (50/30) 2,50mm2				
1321402 OZ	2	0.394" / 10.0mm	64	121
1331403	3	0.421" / 10.7mm	99	145
1331404	4	0.449" / 11.4mm	117	179
1331405	5	0.492" / 12.5mm	134	233
1331407	7	0.591" / 15.0mm	158	273
1331412	12	0.709" / 18.0mm	248	484
12 AWG (56/28) 4,00mm2				
1321202 OZ	2	0.457" / 11.6mm	91	203
1331203	3	0.484" / 12.3mm	119	228
1331204	4	0.528" / 13.4mm	148	275
1331205	5	0.583" / 14.8mm	220	337
1331207	7	0.638" / 16.2mm	238	428
10 AWG (84/28) 6,00mm2				
1321002 OZ	2	0.531" / 13.5mm	117	235
1331003	3	0.559" / 14.2mm	161	302
1331004	4	0.614" / 15.6mm	205	375
1331005	5	0.673" / 17.1mm	296	471
1331007	7	0.736" / 18.7mm	339	608
8 AWG (80/26) 10,0mm2				
1320802 OZ	2	0.661" / 16.8mm	178	335
1330803	3	0.701" / 17.8mm	248	502
1330804	4	0.776" / 19.7mm	325	684
1330805	5	0.850" / 21.6mm	409	748
1330807	7	0.945" / 24.0mm	550	1006

Sizes continued on next page.

CY-JZ Copper Shield & Numbered Cores



CY-JZ Sizes Continued. (6 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
6 AWG (128/26) 16,0mm²				
1330604	4	0.890" / 22.6mm	832	926
1330605	5	0.992" / 25.2mm	933	1042
4 AWG (200/26) 25,0mm²				
1330404	4	1.138" / 28.9mm	879	1268
1330405	5	1.252" / 31.8mm	1234	1523
2 AWG (280/26) 35,0mm²				
1330204	4	1.268" / 32.2mm	1080	1603
1330205	5	1.433" / 36.4mm	1352	1935
1 AWG (400/26) 50,0mm²				
1330104	4	1.504" / 38.2mm	1489	2223
1330105	5	1.697" / 43.1mm	1932	2784
2/0 AWG (356/24) 70,0mm²				
1332104	4	1.843" / 46.8mm	2073	3085
1332105	5	2.039" / 51.8mm	2704	3857
3/0 AWG (485/24) 95,0mm²				
1333104	4	2.008" / 51.0mm	2723	4065
1333105	5	2.209" / 56.1mm	3517	5084
4/0 AWG (614/24) 120,0mm²				
1334104	4	2.205" / 56.0mm	3554	4906
1334105	5	2.480" / 63.0mm	4443	6137
300 MCM (765/24) 150,0mm²				
1333004	4	2.504" / 63.6mm	4544	6492
1333005	5	2.736" / 69.5mm	5699	6821

* Additional sizes may be available.

FLEX-CY-OZ Reduced Diameter



FLEX-CY-OZ is an oil-resistant PVC, reduced diameter power and control cable with a tinned copper wire braid. Suitable for fixed or flexible applications. Used as a measuring, regulating and control cable used in machine tool, plant engineering and construction, assembly and production lines and other applications in electrical equipment. Designed for free and unrestricted movements without exposure to tensile loads. Due to the tinned copper braiding, **FLEX-CY-OZ** cables are suitable for interference-free data and signal transmissions in signal and control applications or where greater electromagnetic compatibility is required. The common inner PVC jacket is replaced by a foil separator giving this cable a reduced diameter, bending radius and weight. The "OZ" construction offers all black and numbered cores with no ground wire. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special PVC core insulation
- Color code VDE-0293 - **No Ground Wire**
- Plastic foil separator
- 85% Tinned Copper Braid
- Gray PVC outer jacket (RAL 7001)
- "OZ" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 4000 volts
- Flexing bending radius: 10 x Ø
- Static bending radius: 5 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: >20 MΩ x km

Approvals:

- VDE-0245, 0281 Part 13
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm2				
1342002	2	0.224" / 5.7mm	19	30
1342003	3	0.236" / 6.0mm	26	37
1342004	4	0.256" / 6.5mm	31	41
1342005	5	0.276" / 7.0mm	35	50
1342007	7	0.311" / 7.9mm	46	66
1342012	12	0.378" / 9.6mm	78	105
1342014	14	0.393" / 10.0mm	82	127
1342018	18	0.441" / 11.2mm	102	146
1342020	20	0.468" / 11.9mm	116	161
1342025	25	0.531" / 13.5mm	168	211
1342030	30	0.551" / 14.0mm	199	241
1342034	34	0.602" / 15.3mm	209	290
1342040	40	0.646" / 16.4mm	231	326
1342050	50	0.713" / 18.1mm	273	384
1342061	61	0.779" / 19.8mm	389	438
1342080	80	0.862" / 21.9mm	463	926
1342000	100	0.957" / 24.3mm	546	667
18 AWG (24/32) 0,75mm2				
1341802	2	0.240" / 6.1mm	25	40
1341803	3	0.252" / 6.4mm	34	44
1341804	4	0.272" / 6.9mm	38	52
1341805	5	0.291" / 7.4mm	47	62
1341807	7	0.339" / 8.6mm	64	87
1341812	12	0.409" / 10.4mm	101	135
1341816	16	0.457" / 11.6mm	123	185
1341818	18	0.488" / 12.4mm	139	196
1341821	21	0.543" / 13.8mm	165	254
1341825	25	0.594" / 15.1mm	186	278
1341834	34	0.614" / 15.6mm	235	337
1341840	40	0.665" / 16.9mm	265	417
1341850	50	0.787" / 20.0mm	322	521
1341861	61	0.862" / 21.9mm	372	604
1341880	80	0.956" / 24.3mm	480	812
1341800	100	1.055" / 26.8mm	610	970
17 AWG (32/32) 1,00mm2				
1341702	2	0.252" / 6.4mm	31	44
1341703	3	0.264" / 6.7mm	38	54

Sizes continued on next page.

FLEX-CY-OZ Reduced Diameter



FLEX-CY-OZ Sizes Continued. (17 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
17 AWG (32/32) 1,00mm2 Cont.				
1341704	4	0.287" / 7.3mm	46	66
1341705	5	0.307" / 7.8mm	60	85
1341707	7	0.358" / 9.1mm	74	106
1341712	12	0.441" / 11.2mm	113	174
1341714	14	0.465" / 11.8mm	133	203
1341718	18	0.520" / 13.2mm	164	255
1341725	25	0.638" / 16.2mm	223	358
1341734	34	0.709" / 18.0mm	294	497
1341741	41	0.764" / 19.4mm	342	565
1341750	50	0.843" / 21.4mm	419	688
16 AWG (30/30) 1,50mm2				
1341602	2	0.276" / 7.0mm	42	59
1341603	3	0.291" / 7.4mm	51	67
1341604	4	0.319" / 8.1mm	66	85
1341605	5	0.350" / 8.9mm	78	107
1341607	7	0.413" / 10.5mm	102	140
1341612	12	0.504" / 12.8mm	149	227
1341618	18	0.598" / 15.2mm	247	321
1341625	25	0.728" / 18.5mm	335	473
1341634	34	0.819" / 20.8mm	433	647
1341641	41	0.886" / 22.5mm	486	718
1341650	50	0.965" / 24.5mm	594	865
14 AWG (50/30) 2,50mm2				
1341402	2	0.327" / 8.3mm	64	87
1341403	3	0.354" / 9.0mm	98	112
1341404	4	0.386" / 9.8mm	117	131
1341405	5	0.429" / 10.9mm	134	150
1341407	7	0.504" / 12.8mm	158	231
1341412	12	0.626" / 15.9mm	296	382
12 AWG (56/28) 4,00mm2				
1341202	2	0.386" / 9.8mm	91	124
1341203	3	0.417" / 10.6mm	119	161
1341204	4	0.453" / 11.5mm	161	208
1341205	5	0.500" / 12.7mm	220	258
1341207	7	0.555" / 14.1mm	238	335
10 AWG (84/28) 6,00mm2				
1341002	2	0.453" / 11.5mm	117	180
1341003	3	0.488" / 12.4mm	161	221
1341004	4	0.543" / 13.8mm	225	278
1341005	5	0.618" / 15.7mm	296	341
1341007	7	0.654" / 16.6mm	339	451
8 AWG (80/26) 10,0mm2				
1340802	2	0.587" / 14.9mm	178	285
1340803	3	0.626" / 15.9mm	248	335
1340804	4	0.701" / 17.8mm	325	525
1340805	5	0.772" / 19.6mm	479	574

* Additional sizes may be available.

Flexible Control Cables

FLEX-CY-JZ Reduced Diameter



FLEX-CY-JZ is an oil-resistant PVC, reduced diameter power and control cable with a tinned copper wire braid. Suitable for fixed or flexible applications. Used as a measuring, regulating and control cable used in machine tool, plant engineering and construction, assembly and production lines and other applications in electrical equipment. Designed for free and unrestricted movements without exposure to tensile loads. Due to the tinned copper braiding, **FLEX-CY-JZ** cables are suitable for interference-free data and signal transmissions in signal and control applications or where greater electromagnetic compatibility is required. The common inner PVC jacket is replaced by a foil separator giving this cable a reduced diameter, bending radius and weight. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special PVC core insulation
- Color code VDE-0293 - black & numbered
- Plastic foil separator
- 85% Tinned Copper Braid
- Gray PVC outer jacket (RAL 7001)
- "OZ" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 4000 volts
- Flexing bending radius: 10 x Ø
- Static bending radius: 5 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: >20 MΩ x km

Approvals:

- VDE-0245, 0281 Part 13
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm²				
1342002 OZ	2	0.224" / 5.7mm	19	30
1352003	3	0.236" / 6.0mm	26	37
1352004	4	0.256" / 6.5mm	31	41
1352005	5	0.276" / 7.0mm	35	50
1352007	7	0.311" / 7.9mm	46	66
1352012	12	0.378" / 9.6mm	78	105
1352014	14	0.393" / 10.0mm	82	127
1352018	18	0.441" / 11.2mm	102	146
1352021	21	0.492" / 12.5mm	127	168
1352025	25	0.531" / 13.5mm	168	211
1352030	30	0.551" / 14.0mm	199	241
1352034	34	0.602" / 15.3mm	209	290
1352040	40	0.646" / 16.4mm	231	326
1352050	50	0.713" / 18.1mm	273	384
1352061	61	0.779" / 19.8mm	389	438
1352080	80	0.862" / 21.9mm	463	926
1352000	100	0.957" / 24.3mm	546	667
18 AWG (24/32) 0,75mm²				
1341802 OZ	2	0.240" / 6.1mm	25	40
1351803	3	0.252" / 6.4mm	34	44
1351804	4	0.272" / 6.9mm	38	52
1351805	5	0.291" / 7.4mm	47	62
1351807	7	0.339" / 8.6mm	64	87
1351812	12	0.409" / 10.4mm	101	135
1351816	16	0.457" / 11.6mm	123	185
1351818	18	0.488" / 12.4mm	139	196
1351821	21	0.543" / 13.8mm	165	254
1351825	25	0.594" / 15.1mm	186	278
1351834	34	0.614" / 15.6mm	235	337
1351840	40	0.665" / 16.9mm	265	417
1351850	50	0.787" / 20.0mm	322	521
1351861	61	0.862" / 21.9mm	372	604
1351880	80	0.956" / 24.3mm	480	812
1351800	100	1.055" / 26.8mm	610	970
17 AWG (32/32) 1,00mm²				
1341702 OZ	2	0.252" / 6.4mm	31	44
1351703	3	0.264" / 6.7mm	38	54

Sizes continued on next page.

FLEX-CY-JZ Reduced Diameter



FLEX-CY-JZ Sizes Continued. (17 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
17 AWG (32/32) 1,00mm2 Cont.				
1351704	4	0.287" / 7.3mm	46	66
1351705	5	0.307" / 7.8mm	60	85
1351707	7	0.358" / 9.1mm	74	106
1351712	12	0.441" / 11.2mm	113	174
1351714	14	0.465" / 11.8mm	133	203
1351718	18	0.520" / 13.2mm	164	255
1351725	25	0.638" / 16.2mm	223	358
1351734	34	0.709" / 18.0mm	294	497
1351741	41	0.764" / 19.4mm	342	565
1351750	50	0.843" / 21.4mm	419	688
16 AWG (30/30) 1,50mm2				
1341602 OZ	2	0.276" / 7.0mm	42	59
1351603	3	0.291" / 7.4mm	51	67
1351604	4	0.319" / 8.1mm	66	85
1351605	5	0.350" / 8.9mm	78	107
1351607	7	0.413" / 10.5mm	102	140
1351612	12	0.504" / 12.8mm	149	227
1351618	18	0.598" / 15.2mm	247	321
1351625	25	0.728" / 18.5mm	335	473
1351634	34	0.819" / 20.8mm	433	647
1351641	41	0.886" / 22.5mm	486	718
1351650	50	0.965" / 24.5mm	594	865
14 AWG (50/30) 2,50mm2				
1341402 OZ	2	0.327" / 8.3mm	64	87
1351403	3	0.354" / 9.0mm	98	112
1351404	4	0.386" / 9.8mm	117	131
1351405	5	0.429" / 10.9mm	134	150
1351407	7	0.504" / 12.8mm	158	231
1351412	12	0.626" / 15.9mm	296	382
12 AWG (56/28) 4,00mm2				
1341202 OZ	2	0.386" / 9.8mm	91	124
1351203	3	0.417" / 10.6mm	119	161
1351204	4	0.453" / 11.5mm	161	208
1351205	5	0.500" / 12.7mm	220	258
1351207	7	0.555" / 14.1mm	238	335
10 AWG (84/28) 6,00mm2				
1341002 OZ	2	0.453" / 11.5mm	117	180
1351003	3	0.488" / 12.4mm	161	221
1351004	4	0.543" / 13.8mm	225	278
1351005	5	0.618" / 15.7mm	296	341
1351007	7	0.654" / 16.6mm	339	451
8 AWG (80/26) 10,0mm2				
1340802 OZ	2	0.587" / 14.9mm	178	285
1350803	3	0.626" / 15.9mm	248	335
1350804	4	0.701" / 17.8mm	325	525
1350805	5	0.772" / 19.6mm	479	574
6 AWG (128/26) 16,0mm2				
1350604	4	0.819" / 20.8mm	543	590
1350605	5	0.902" / 22.9mm	704	869
4 AWG (200/26) 25,0mm2				
1350404	4	1.031" / 26.2mm	781	1052
1350405	5	1.157" / 29.4mm	966	1318
2 AWG (280/26) 35,0mm2				
1350204	4	1.197" / 30.4mm	1057	1388
1350205	5	1.331" / 33.8mm	1295	1804

* Additional sizes may be available.

POWER-JZ 0,6/1 kV



POWER-JZ is a flexible 600/1000v, oil & weather resistant, PVC multi-conductor power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. For use in flexible or stationary applications under medium mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include machine tools, measuring and control systems, air condition installations, conveyor belts, production lines, plant and appliance construction and other electrical applications requiring a greater voltage. Found in steel production plants, power stations, rolling mills, paint spray lines and refrigeration plants. Outdoor installation is permitted due to the black UV-resistant PVC outer jacket.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special PVC core insulation
- Color code VDE-0293 - black & numbered
- Ground wire in outer layer
- Black PVC outer jacket (RAL 9005)
- "OZ" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 600/1000 volts
- Test voltage: 4000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 4 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0250, 0281, 0293, 0295
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
18 AWG (24/32) 0,75mm2				
1121802 OZ	2	0.327" / 8.3mm	9	54
1131803 **	3	0.343" / 8.7mm	15	62
1131804 **	4	0.362" / 9.2mm	19	72
1131805 **	5	0.390" / 9.9mm	24	85
1131807 **	7	0.421" / 10.7mm	34	109
1131812 **	12	0.528" / 13.4mm	58	158
1131818 **	18	0.606" / 15.4mm	87	224
1131825	25	0.697" / 17.7mm	121	315
1131834	34	0.795" / 20.2mm	164	409
1131841	41	0.850" / 21.6mm	199	478
1131850	50	0.941" / 23.9mm	241	563
17 AWG (32/32) 1,00mm2				
1121702 OZ	2	0.205" / 8.6mm	13	66
1131703 **	3	0.217" / 9.0mm	19	75
1131704 **	4	0.244" / 9.6mm	25	88
1131705 **	5	0.268" / 10.4mm	32	102
1131707 **	7	0.319" / 11.1mm	45	131
1131712 **	12	0.390" / 14.0mm	77	192
1131718 **	18	0.469" / 16.1mm	116	281
1131725	25	0.571" / 18.6mm	161	384
1131734	34	0.646" / 21.3mm	219	512
1131741	41	0.693" / 23.2mm	264	598
1131750	50	0.780" / 25.2mm	322	702
16 AWG (30/30) 1,50mm2				
1121602 OZ	2	0.378" / 9.6mm	19	83
1131603 **	3	0.398" / 10.1mm	29	97
1131604 **	4	0.425" / 10.8mm	39	114
1131605 **	5	0.461" / 11.7mm	46	133
1131607 **	7	0.496" / 12.6mm	68	175
1131612 **	12	0.634" / 16.1mm	116	268
1131618	18	0.740" / 18.8mm	174	367
1131625	25	0.854" / 21.7mm	241	516
1131634	34	0.980" / 24.9mm	329	668
1131641	41	1.071" / 27.2mm	405	751
1131650	50	1.173" / 29.8mm	483	957

Sizes continued on next page.

POWER-JZ 0,6/1 kV



POWER-JZ Sizes Continued. (14 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
14 AWG (50/30) 2,50mm²				
1121402 OZ	2	0.425" / 10.8mm	32	99
1131403 **	3	0.445" / 11.3mm	48	122
1131404 **	4	0.480" / 12.2mm	64	151
1131405 **	5	0.524" / 13.3mm	80	178
1131407	7	0.567" / 14.4mm	113	237
1131412	12	0.736" / 18.7mm	193	362
1131418	18	0.866" / 22.0mm	225	529
1131425	25	1.016" / 25.8mm	402	734
12 AWG (56/28) 4,00mm²				
1131203	3	0.496" / 12.6mm	77	154
1131204	4	0.543" / 13.8mm	103	217
1131205	5	0.594" / 15.1mm	129	258
1131207	7	0.646" / 16.4mm	180	344
10 AWG (84/28) 6,00mm²				
1131003	3	0.559" / 14.2mm	116	248
1131004	4	0.594" / 15.1mm	154	296
1131005	5	0.661" / 16.8mm	193	353
1131007	7	0.717" / 18.2mm	270	473
8 AWG (80/26) 10,0mm²				
1130804	4	0.736" / 18.7mm	258	474
1130805	5	0.815" / 20.7mm	322	591
6 AWG (128/26) 16,0mm²				
1130604	4	0.839" / 21.3mm	412	738
1130605	5	0.929" / 23.6mm	515	1073
4 AWG (200/26) 25,0mm²				
1130404	4	1.031" / 26.2mm	644	1073
1130405	5	1.256" / 31.9mm	805	1375
2 AWG (280/26) 35,0mm²				
1130204	4	1.146" / 29.1mm	901	1610
1 AWG (400/26) 50,0mm²				
1130104	4	1.402" / 35.6mm	1288	2280
2/0 AWG (356/24) 70,0mm²				
1132104	4	1.602" / 40.7mm	1835	3387
3/0 AWG (485/24) 95,0mm²				
1133104	4	1.843" / 46.8mm	2447	4031
4/0 AWG (614/24) 120,0mm²				
1134104	4	2.106" / 53.5mm	3091	5030

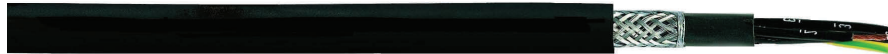
* Additional sizes may be available.

** Sizes available as POWER-OZ (112) - no ground wire construction

POWER-JZ-CY 0,6/1 kV



POWER-JZ-CY is a flexible 600/1000v, oil & weather resistant, overall shielded, PVC multi-conductor power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. For use in flexible or stationary applications under medium mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include machine tools, measuring and control systems, air condition installations, conveyor belts, production lines, plant and appliance construction and other electrical applications requiring a greater voltage. Found in steel production plants, power stations, rolling mills, paint spray lines and refrigeration plants. The tinned copper braid shield provides interference-free data and signal transmissions and greater protection against electromagnetic distortion. Outdoor installation is permitted due to the black UV-resistant PVC outer jacket.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special PVC core insulation
- Color code VDE-0293 - black & numbered
- Black PVC inner jacket
- 85% Tinned Copper Braid
- Black PVC outer jacket (RAL 9005)
- "OZ" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 600/1000 volts
- Test voltage: 4000 volts
- Flexing bending radius: 20 x Ø
- Static bending radius: 6 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: >20 MΩ x km

Approvals:

- VDE-0245, 0250, 0281, 0293, 0295
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm2				
1382002 OZ	2	0.398" / 10.1mm	25	111
1392003 **	3	0.409" / 10.4mm	30	121
1392004 **	4	0.433" / 11.0mm	36	141
1392005 **	5	0.457" / 11.6mm	42	160
1392007 **	7	0.484" / 12.3mm	51	184
1392012 **	12	0.587" / 14.9mm	88	267
1392018	18	0.669" / 17.0mm	117	350
1392025	25	0.744" / 18.9mm	150	428
18 AWG (24/32) 0,75mm2				
1381802 OZ	2	0.413" / 10.5mm	31	123
1391803 **	3	0.429" / 10.9mm	38	141
1391804 **	4	0.449" / 11.4mm	45	160
1391805 **	5	0.476" / 12.1mm	52	182
1391807 **	7	0.508" / 12.9mm	65	211
1391812 **	12	0.622" / 15.8mm	113	311
1391818	18	0.709" / 18.0mm	154	413
1391825	25	0.815" / 20.7mm	199	511
17 AWG (32/32) 1,0mm2				
1381702 OZ	2	0.425" / 10.8mm	35	133
1391703 **	3	0.441" / 11.2mm	44	153
1391704 **	4	0.465" / 11.8mm	53	175
1391705 **	5	0.496" / 12.6mm	62	201
1391707 **	7	0.524" / 13.3mm	78	225
1391712	12	0.646" / 16.4mm	137	350
1391718	18	0.736" / 18.7mm	188	461
1391725	25	0.850" / 21.6mm	248	593
16 AWG (30/30) 1,50mm2				
1381602 OZ	2	0.465" / 11.8mm	46	163
1391603 **	3	0.484" / 12.3mm	58	183
1391604 **	4	0.512" / 13.0mm	68	195
1391605 **	5	0.547" / 13.9mm	84	236
1391607 **	7	0.591" / 15.0mm	121	300

Sizes continued on next page.

POWER-JZ-CY 0,6/1 kV



POWER-JZ-CY Sizes Continued. (16 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
16 AWG (32/32) 1,00mm² Cont.				
1391612	12	0.736" / 18.7mm	188	463
1391618	18	0.858" / 21.8mm	262	629
1391625	25	0.988" / 25.1mm	347	791
14 AWG (50/30) 2,50mm²				
1381402 OZ	2	0.480" / 12.2mm	68	205
1391403	3	0.531" / 13.5mm	83	237
1391404	4	0.575" / 14.6mm	113	277
1391405	5	0.618" / 15.7mm	137	345
1391407	7	0.669" / 17.0mm	178	415
1391412	12	0.854" / 21.7mm	282	575
1391418	18	1.028" / 26.1mm	384	789
1391425	25	1.256" / 31.9mm	458	1038
12 AWG (56/28) 4,00mm²				
1391203	3	0.594" / 15.1mm	131	270
1391204	4	0.638" / 16.2mm	160	394
1391205	5	0.697" / 17.7mm	203	462
1391207	7	0.748" / 19.0mm	266	555
10 AWG (84/28) 6,00mm²				
1391003	3	0.661" / 16.8mm	177	404
1391004	4	0.697" / 17.7mm	213	480
1391005	5	0.756" / 19.2mm	281	575
1391007	7	0.835" / 21.2mm	375	741
8 AWG (80/26) 10,0mm²				
1390804	4	0.854" / 21.7mm	385	753
1390805	5	0.906" / 23.0mm	410	938
6 AWG (128/26) 16,0mm²				
1390604	4	0.957" / 24.3mm	543	767
1390605	5	1.051" / 26.7mm	627	1022
4 AWG (200/26) 25,0mm²				
1390404	4	1.173" / 29.8mm	781	1409
1390405	5	1.244" / 31.6mm	939	1802
2 AWG (280/26) 35,0mm²				
1390204	4	1.287" / 32.7mm	1129	1851
1 AWG (400/26) 50,0mm²				
1390104	4	1.559" / 39.6mm	1588	2434
2/0 AWG (356/24) 70,0mm²				
1392104	4	1.752" / 44.5mm	2187	3430
3/0 AWG (485/24) 95,0mm²				
1393104	4	2.008" / 51.0mm	2720	4353
4/0 AWG (614/24) 120,0mm²				
1394104	4	2.287" / 58.1mm	3505	5989

* Additional sizes may be available.

** Sizes available as POWER-CY-OZ (138) - no ground wire construction

FLEX-UL UL/CSA/CE



FLEX-UL is PVC, flexible, oil-resistant, multi-conductor power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. Especially designed for the North American market by carrying UL and CSA approvals. For use in flexible or stationary applications under medium mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections and control to CNC machines, machine tools, control systems, assembly lines, control panel to machine connections, grinding machines and bottling equipment. Found in plant engineering, paint shops, power stations and refrigeration plants. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special PVC core insulation
- Color code VDE-0293 - black & numbered
- Ground wire in outer layer
- PVC outer jacket - gray (RAL 7001)
- "OZ" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 (600v UL)
- Test voltage: 3000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 5 x Ø
- Flexing temp: -5° C to +70° C (90° UL)
- Static temp: -30° C to +80° C (90° UL)
- Flame retardant: IEC 60332.1, FT1
- Insulation resistance: 20 MΩ x km

Approvals:

- UL Style 2587 VW-1
- UL AWM Style 1012
- CSA AWM I A/B, II A/B FT1
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
21 AWG (16/32) 0,50mm²				
1402102 OZ	2	0.232" / 5.9mm	7	33
1402103	3	0.248" / 6.3mm	9	39
1402104	4	0.264" / 6.7mm	13	46
1402105	5	0.287" / 7.3mm	16	56
1402107	7	0.335" / 8.5mm	23	73
1402109	9	0.381" / 9.7mm	28	92
1402112	12	0.429" / 10.9mm	39	129
1402118	18	0.508" / 12.9mm	58	172
1402125	25	0.610" / 15.5mm	80	240
19 AWG (24/32) 0,75mm²				
1401902 OZ	2	0.236" / 6.0mm	9	34
1401903	3	0.256" / 6.5mm	14	40
1401904	4	0.280" / 7.1mm	19	48
1401905	5	0.303" / 7.7mm	24	59
1401907	7	0.350" / 8.9mm	34	84
1401909	9	0.425" / 10.8mm	44	102
1401912	12	0.457" / 11.6mm	58	130
1401918	18	0.547" / 13.9mm	87	180
1401925	25	0.661" / 16.8mm	121	257
1401934	34	0.752" / 19.1mm	164	324
1401941	41	0.823" / 20.9mm	198	385
1401950	50	0.906" / 23.0mm	241	478
18 AWG (32/32) 1,00mm²				
1401802 OZ	2	0.248" / 6.3mm	13	44
1401803	3	0.264" / 6.7mm	19	52
1401804	4	0.287" / 7.3mm	25	70
1401805	5	0.311" / 7.9mm	32	89
1401807	7	0.362" / 9.2mm	45	123
1401809	9	0.441" / 11.2mm	59	154
1401812	12	0.465" / 11.8mm	77	192
1401818	18	0.555" / 14.1mm	116	268
1401825	25	0.673" / 17.1mm	161	382
1401834	34	0.760" / 19.3mm	219	498
1401841	41	0.835" / 21.2mm	264	551
1401850	50	0.921" / 23.4mm	305	642
16 AWG (30/30) 1,50mm²				
1401602 OZ	2	0.272" / 6.9mm	19	56
1401603	3	0.295" / 7.5mm	28	65
1401604	4	0.319" / 8.1mm	39	79

Sizes continued on next page.

FLEX-UL UL/CSA/CE



FLEX-UL Sizes Continued. (16 AWG & Larger)

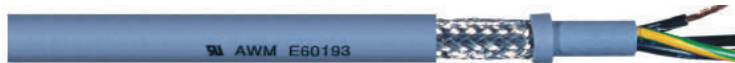
PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
16 AWG (30/30) 1,50mm2 Cont.				
1401605	5	0.343" / 8.7mm	48	91
1401607	7	0.417" / 10.6mm	68	125
1401609	9	0.504" / 12.8mm	87	170
1401612	12	0.528" / 13.4mm	116	212
1401618	18	0.622" / 15.8mm	174	300
1401625	25	0.744" / 18.9mm	241	413
1401634	34	0.854" / 21.7mm	329	580
1401641	41	0.933" / 23.7mm	396	734
1401650	50	1.028" / 26.1mm	483	900
14 AWG (50/30) 2,50mm2				
1401402 OZ	2	0.323" / 8.2mm	32	77
1401403	3	0.343" / 8.7mm	48	96
1401404	4	0.398" / 10.1mm	64	124
1401405	5	0.429" / 10.9mm	80	148
1401407	7	0.516" / 13.1mm	113	197
1401409	9	0.516" / 13.1mm	145	290
1401412	12	0.657" / 16.7mm	193	378
1401418	18	0.772" / 19.6mm	290	573
1401425	25	0.945" / 24.0mm	402	797
12 AWG (56/28) 4,00mm2				
1401203	3	0.441" / 11.2mm	77	156
1401204	4	0.492" / 12.5mm	103	200
1401205	5	0.543" / 13.8mm	129	240
1401207	7	0.642" / 16.3mm	248	309
10 AWG (84/28) 6,00mm2				
1401003	3	0.508" / 12.9mm	116	241
1401004	4	0.559" / 14.2mm	155	270
1401005	5	0.626" / 15.9mm	193	325
1401007	7	0.763" / 19.4mm	270	241
8 AWG (80/26) 10,0mm2				
1400803	3	0.606" / 15.4mm	193	438
1400804	4	0.685" / 17.4mm	258	527
1400805	5	0.787" / 20.0mm	322	438
1400807	7	0.878" / 22.3mm	451	527
6 AWG (128/26) 16,0mm2				
1400603	3	0.732" / 18.6mm	309	566
1400604	4	0.780" / 19.8mm	412	701
1400605	5	0.906" / 23.0mm	515	845
1400607	7	0.965" / 24.5mm	721	1176
4 AWG (200/26) 25,0mm2				
1400403	3	0.921" / 23.4mm	483	805
1400404	4	1.055" / 26.8mm	644	1068
1400405	5	1.126" / 28.6mm	805	1335
1400407	7	1.362" / 34.6mm	1127	1908
2 AWG (280/26) 35,0mm2				
1400203	3	1.035" / 26.3mm	676	1081
1400204	4	1.181" / 30.0mm	901	1424
1400205	5	1.280" / 32.5mm	1127	1752
1 AWG (400/26) 50,0mm2				
1400103	3	1.228" / 31.2mm	965	1778
1400104	4	1.409" / 35.8mm	1287	2051
2/0 AWG (356/24) 70,0mm2				
1402004	4	1.638" / 41.6mm	1803	2853
3/0 AWG (485/24) 95,0mm2				
1403104	4	1.811" / 46.0mm	2447	3865
4/0 AWG (614/24) 120,0mm2				
1404104	4	2.079" / 52.8mm	3091	4883

* Additional sizes may be available.

FLEX-UL-CY UL/CSA/CE



FLEX-UL-CY is PVC, flexible, oil-resistant, overall shielded, multi-conductor power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. Especially designed for the North American market by carrying UL and CSA approvals. For use in flexible or stationary applications under medium mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections and control to CNC machines, machine tools, control systems, assembly lines, control panel to machine connections, grinding machines and bottling equipment. Found in plant engineering, paint shops, power stations and refrigeration plants. Due to the tinned copper braiding, **FLEX-UL-CY** cables are suitable for interference-free data and signal transmissions in signal and control applications where greater electromagnetic compatibility is required. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Special PVC core insulation
- Color code VDE-0293 - black & numbered
- Gray PVC inner jacket
- 85% Tinned Copper Braid
- PVC outer jacket - gray (RAL 7001)
- "OZ" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 (600v UL)
- Test voltage: 3000 volts
- Flexing bending radius: 20 x Ø
- Static bending radius: 6 x Ø
- Flexing temp: -5° C to +70° C (90° UL)
- Static temp: -30° C to +80° C (90° UL)
- Flame retardant: IEC 60332.1, FT1
- Insulation resistance: 20 MΩ x km

Approvals:

- UL Style 2587 VW-1
- UL AWM Style 1012
- CSA AWM I A/B, II A/B FT1
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
21 AWG (16/32) 0,50mm²				
1412102 OZ	2	0.307" / 7.8mm	20	62
1412103	3	0.319" / 8.1mm	24	83
1412104	4	0.343" / 8.7mm	28	89
1412105	5	0.366" / 9.3mm	32	103
1412107	7	0.417" / 10.6mm	43	128
1412112	12	0.516" / 13.1mm	70	216
1412118	18	0.618" / 15.7mm	99	251
1412125	25	0.720" / 18.3mm	141	292
19 AWG (24/32) 0,75mm²				
1411902 OZ	2	0.319" / 8.1mm	24	66
1411903	3	0.335" / 8.5mm	37	77
1411904	4	0.354" / 9.0mm	45	101
1411905	5	0.390" / 9.9mm	52	123
1411907	7	0.413" / 10.5mm	60	158
1411909	9	0.465" / 11.8mm	77	180
1411912	12	0.551" / 14.0mm	111	238
1411918	18	0.634" / 16.1mm	127	327
1411925	25	0.744" / 18.9mm	184	439
1411934	34	0.803" / 20.4mm	268	578
1411941	41	0.898" / 22.8mm	315	651
18 AWG (32/32) 1,00mm²				
1411802 OZ	2	0.331" / 8.4mm	28	68
1411803	3	0.350" / 8.9mm	42	95
1411804	4	0.374" / 9.5mm	52	117
1411805	5	0.406" / 10.3mm	61	138
1411807	7	0.449" / 11.4mm	79	177
1411809	9	0.520" / 13.2mm	93	218
1411812	12	0.587" / 14.9mm	124	282
1411818	18	0.661" / 16.8mm	204	389
1411825	25	0.772" / 19.6mm	248	514
1411834	34	0.890" / 22.6mm	282	668
1411841	41	0.961" / 24.4mm	388	775
16 AWG (30/30) 1,50mm²				
1411602 OZ	2	0.346" / 8.8mm	47	91
1411603	3	0.366" / 9.3mm	56	118

Sizes continued on next page.

FLEX-UL-CY UL/CSA/CE



FLEX-UL-CY Sizes Continued. (16 AWG & Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
16 AWG (30/30) 1,50mm2 Cont.				
1411604	4	0.398" / 10.1mm	64	158
1411605	5	0.429" / 10.9mm	79	164
1411607	7	0.429" / 13.0mm	114	211
1411609	9	0.595" / 15.1mm	136	241
1411612	12	0.618" / 15.7mm	161	335
1411618	18	0.724" / 18.4mm	238	461
1411625	25	0.882" / 22.4mm	334	637
1411634	34	0.996" / 25.3mm	506	808
1411641	41	1.083" / 27.5mm	540	975
14 AWG (50/30) 2,50mm2				
1411402 OZ	2	0.409" / 10.4mm	54	116
1411403	3	0.429" / 10.9mm	74	148
1411404	4	0.469" / 11.9mm	96	181
1411405	5	0.524" / 13.3mm	122	221
1411407	7	0.618" / 15.7mm	179	287
1411409	9	0.669" / 17.0mm	219	395
1411412	12	0.760" / 19.3mm	274	510
1411418	18	0.913" / 23.2mm	429	765
1411425	25	1.122" / 28.5mm	602	1040
12 AWG (56/28) 4,00mm2				
1411203	3	0.520" / 13.2mm	133	208
1411204	4	0.575" / 14.6mm	156	306
1411205	5	0.626" / 15.9mm	184	357
1411207	7	0.752" / 19.1mm	256	494
10 AWG (84/28) 6,00mm2				
1411003	3	0.602" / 15.3mm	162	276
1411004	4	0.657" / 16.7mm	212	384
1411005	5	0.728" / 18.5mm	276	491
1411007	7	0.823" / 20.9mm	382	645
8 AWG (80/26) 10,0mm2				
1410803	3	0.677" / 17.2mm	279	497
1410804	4	0.803" / 20.4mm	383	663
1410805	5	0.866" / 22.0mm	463	806
1410807	7	1.024" / 26.0mm	651	1169
6 AWG (128/26) 16,0mm2				
1410603	3	0.929" / 23.6mm	443	730
1410604	4	1.016" / 25.8mm	551	1115
1410605	5	1.142" / 29.0mm	756	1356
1410607	7	1.260" / 32.0mm	1014	1824
4 AWG (200/26) 25,0mm2				
1410403	3	1.102" / 28.0mm	732	1306
1410404	4	1.189" / 30.2mm	968	1738
1410405	5	1.339" / 34.0mm	1209	2144
1410407	7	1.535" / 39.0mm	1690	3038
2 AWG (280/26) 35,0mm2				
1410203	3	1.339" / 34.0mm	1007	1812
1410204	4	1.492" / 37.9mm	1267	2198
1410205	5	1.642" / 41.7mm	1698	3038
1 AWG (400/26) 50,0mm2				
1410104	4	1.594" / 40.5mm	1571	2656
2/0 AWG (356/24) 70,0mm2				
1412003	3	1.697" / 43.1mm	1598	2528
1412004	4	1.815" / 47.4mm	2017	3275
3/0 AWG (485/24) 95,0mm2				
1413103	3	1.791" / 45.5mm	2078	3018
1413104	4	1.996" / 50.7mm	2690	4271
4/0 AWG (614/24) 120,0mm2				
1414104	4	2.244" / 57.0mm	3362	5373

* Additional sizes may be available.

FLEX-QUATTRO



FLEX-QUATTRO is PVC, flexible, oil-resistant, multi-conductor power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. Especially designed for international use in the North American and European markets by carrying Harmonization, UL and CSA approvals. For use in flexible or stationary applications under medium mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections and control to CNC machines, machine tools, control systems, assembly lines, control panel to machine connections, grinding machines and bottling equipment. Found in plant engineering, paint shops, power stations and refrigeration plants. Outdoor installation is not permitted. Common European designation is **H05VV5-F**.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special PVC core insulation
- Color code VDE-0293 - black & numbered
- Ground wire in outer layer
- PVC outer jacket - gray (RAL 7001)
- "OZ" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 (600v UL)
- Test voltage: 3000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 5 x Ø
- Flexing temp: -5° C to +70° C (90° UL)
- Static temp: -30° C to +80° C (90° UL)
- Flame retardant: IEC 60332.1, FT1
- Insulation resistance: 20 MΩ x km

Approvals:

- UL Style 2587, VW-1
- CSA AWM I A/B, II A/B FT1
- <HAR> HD 21.13 S1
- <VDE> 0281 Part-13
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant
- **H05VV5-F HAR/UL/CSA**

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
21 AWG (16/32) 0,50mm2				
1502102 OZ	2	0.224" / 5.7mm	7	35
1502103	3	0.240" / 6.1mm	9	42
1502104	4	0.264" / 6.7mm	13	46
1502105	5	0.283" / 7.3mm	17	58
1502107	7	0.346" / 8.8mm	23	80
1502112	12	0.437" / 11.1mm	39	133
1502118	18	0.527" / 13.4mm	58	178
1502125	25	0.630" / 16.0mm	80	255
1502134	34	0.697" / 17.7mm	109	341
1502141	41	0.775" / 19.7mm	131	399
19 AWG (24/32) 0,75mm2				
1501902 OZ	2	0.236" / 6.0mm	9	44
1501903	3	0.256" / 6.5mm	14	51
1501904	4	0.280" / 7.1mm	19	57
1501905	5	0.311" / 7.9mm	24	76
1501907	7	0.374" / 9.5mm	34	97
1501912	12	0.457" / 11.6mm	55	164
1501918	18	0.547" / 13.9mm	87	219
1501925	25	0.673" / 17.1mm	121	313
1501934	34	0.752" / 19.1mm	164	420
1501941	41	0.823" / 20.9mm	199	501
1501950	50	0.906" / 23.0mm	241	601
18 AWG (32/32) 1,00mm2				
1501802 OZ	2	0.248" / 6.3mm	13	47
1501803	3	0.268" / 6.8mm	19	59
1501804	4	0.295" / 7.5mm	25	66
1501805	5	0.331" / 8.4mm	32	89
1501807	7	0.394" / 10.0mm	45	114
1501812	12	0.492" / 12.5mm	77	191
1501818	18	0.579" / 14.7mm	116	272
1501825	25	0.709" / 18.0mm	161	382
1501834	34	0.799" / 20.3mm	219	498
1501841	41	0.882" / 22.4mm	263	594
1501850	50	0.957" / 24.3mm	322	718
1501861	61	1.055" / 26.8mm	393	848
1501865	65	1.106" / 28.1mm	419	882

Sizes continued on next page.

FLEX-QUATTRO



FLEX-QUATTRO Sizes Continued. (16 AWG & Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
16 AWG (30/30) 1,50mm²				
1501602 OZ	2	0.291" / 7.4mm	19	61
1501603	3	0.315" / 8.0mm	29	74
1501604	4	0.343" / 8.7mm	39	95
1501605	5	0.386" / 9.8mm	48	112
1501607	7	0.469" / 11.9mm	68	151
1501612	12	0.571" / 14.5mm	116	242
1501618	18	0.685" / 17.4mm	174	347
1501625	25	0.839" / 21.3mm	241	490
1501634	34	0.949" / 24.1mm	329	634
1501641	41	1.031" / 26.2mm	396	761
1501650	50	1.134" / 28.8mm	483	926
1501661	61	1.240" / 31.5mm	589	1100
14 AWG (50/30) 2,50mm²				
1501402 OZ	2	0.362" / 9.2mm	32	84
1501403	3	0.390" / 9.9mm	48	113
1501404	4	0.437" / 11.1mm	64	140
1501405	5	0.472" / 12.0mm	80	172
1501407	7	0.575" / 14.6mm	228	228
1501412	12	0.713" / 18.1mm	193	388
1501418	18	0.870" / 22.1mm	290	571
1501425	25	1.043" / 26.5mm	402	788
1501434	34	1.177" / 29.9mm	495	1026
1501441	41	1.259" / 32.0mm	660	1277
1501450	50	1.386" / 35.2mm	805	1536

** for sizes larger than #14 AWG (2,50mm²) see product FLEX-UL (140)

* Additional sizes may be available.

FLEX-QUATTRO-CY

<HAR>



FLEX-QUATTRO-CY is PVC, flexible, oil-resistant, overall shielded, multi-conductor power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. Especially designed for international use by carrying Harmonization, UL and CSA approvals. For use in flexible or stationary applications under medium mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections and control to CNC machines, machine tools, control systems, assembly lines, control panel to machine connections, grinding machines and bottling equipment. Found in plant engineering, paint shops, power stations and refrigeration plants. Due to the tinned copper braiding, **FLEX-QUATTRO-CY** cables are suitable for interference-free data and signal transmissions in signal and control applications where greater electromagnetic compatibility is required. Outdoor installation is not permitted. Common European designation is **H05VVC4V5-K**.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special PVC core insulation
- Color code VDE-0293 - black & numbered
- Gray PVC inner jacket
- 85% Tinned Copper Braid
- PVC outer jacket - gray (RAL 7001)
- "OZ" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 (600v UL)
- Test voltage: 3000 volts
- Flexing bending radius: 20 x Ø
- Static bending radius: 6 x Ø
- Flexing temp: -5° C to +70° C (90° UL)
- Static temp: -30° C to +80° C (90° UL)
- Flame retardant: IEC 60332.1, FT1
- Insulation resistance: 20 MΩ x km

Approvals:

- UL Style 2587, VV-1
- CSA AWM I A/B, II A/B FT1
- <HAR> HD 21.13.S1
- <VDE> 0281 Part-13
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant
- **H05VVC4V5-K HAR/UL/CSA**

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
21 AWG (16/32) 0,50mm2				
1512102 OZ	2	0.303" / 7.7mm	21	60
1512103	3	0.323" / 8.3mm	24	70
1512104	4	0.350" / 8.9mm	28	83
1512105	5	0.382" / 9.7mm	32	99
1512107	7	0.441" / 11.2mm	43	131
1512112	12	0.535" / 13.6mm	70	185
1512118	18	0.606" / 15.4mm	99	280
1512125	25	0.732" / 18.6mm	141	338
1512134	34	0.881" / 22.4mm	200	424
1512141	41	0.944" / 24.0mm	234	516
1512150	50	1.003" / 25.5mm	315	650
1512161	61	1.094" / 27.8mm	355	719
19 AWG (24/32) 0,75mm2				
1511902 OZ	2	0.315" / 8.0mm	28	68
1511903	3	0.339" / 8.6mm	37	85
1511904	4	0.370" / 9.4mm	45	104
1511905	5	0.398" / 10.1mm	52	121
1511907	7	0.469" / 11.9mm	60	151
1511912	12	0.559" / 14.2mm	111	219
1511918	18	0.654" / 16.6mm	127	307
1511925	25	0.787" / 20.0mm	184	426
1511934	34	0.882" / 22.4mm	268	540
1511941	41	0.945" / 24.0mm	315	690
1511950	50	1.031" / 26.2mm	390	775
1511961	61	1.157" / 29.4mm	455	940
18 AWG (32/32) 1,00mm2				
1511802 OZ	2	0.335" / 8.5mm	34	76
1511803	3	0.362" / 9.2mm	42	97
1511804	4	0.386" / 9.8mm	52	119
1511805	5	0.421" / 10.7mm	61	138
1511807	7	0.492" / 12.5mm	79	176
1511812	12	0.594" / 15.1mm	124	287
1511818	18	0.681" / 17.3mm	204	376
1511825	25	0.831" / 21.1mm	248	510
1511834	34	0.925" / 23.5mm	282	634

Sizes continued on next page.

FLEX-QUATTRO-CY



FLEX-QUATTRO-CY Sizes Continued. (18 AWG & Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
18 AWG (32/32) 1,00mm2 Cont.				
1511841	41	1.004" / 25.5mm	388	772
1511850	50	1.087" / 27.6mm	488	872
1511861	61	1.276" / 32.4mm	592	1006
16 AWG (30/30) 1,50mm2				
1511602 OZ	2	0.370" / 9.4mm	48	97
1511603	3	0.398" / 10.1mm	56	107
1511604	4	0.433" / 11.0mm	64	141
1511605	5	0.484" / 12.3mm	79	161
1511607	7	0.559" / 14.2mm	114	205
1511612	12	0.673" / 17.1mm	161	323
1511618	18	0.787" / 20.0mm	238	410
1511625	25	0.945" / 24.0mm	334	637
1511634	34	1.067" / 27.1mm	506	805
1511641	41	1.169" / 29.7mm	540	939
1511650	50	1.252" / 31.8mm	693	1117
1511661	61	1.362" / 34.6mm	830	1242
14 AWG (50/30) 2,50mm2				
1511402 OZ	2	0.437" / 11.1mm	58	127
1511403	3	0.472" / 12.0mm	74	164
1511404	4	0.528" / 13.4mm	96	199
1511405	5	0.575" / 14.6mm	122	246
1511407	7	0.677" / 17.2mm	179	321
1511412	12	0.835" / 21.2mm	274	417
1511418	18	0.976" / 24.8mm	408	677
1511425	25	1.173" / 29.8mm	602	922
1511434	34	1.354" / 34.4mm	791	1270
1511450	50	1.535" / 39.0mm	1113	1788
1511461	61	1.653" / 42.0mm	1336	2069

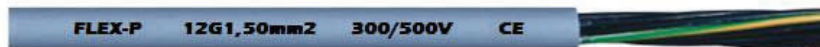
** for sizes larger than #14 AWG (2,50mm2) see product FLEX-UL-CY (141)

* Additional sizes may be available.

FLEX-P Polyurethane Jacket



FLEX-P is a polyurethane, flexible, oil-resistant, multi-conductor power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. For use in flexible or stationary applications under high mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections and control to CNC machines, machine tools, control systems, assembly lines, control panel to machine connections, grinding machines and bottling equipment. Found in plant engineering, paint shops, power stations and refrigeration plants. The rugged polyurethane outer jacket ensures excellent chemical, coolant, abrasion and tear resistance making **FLEX-P** suitable for applications in contact with mineral oils and chemicals. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Special PVC core insulation
- Color code VDE-0293 - black & numbered
- Ground wire in outer layer
- PUR outer jacket - gray (RAL 7001)
- "OZ" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 3000 volts
- Flexing bending radius: 12,5 x Ø
- Static bending radius: 5 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0250, 0282
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm2				
1632002 OZ	2	0.189" / 4.8mm	7	30
1602003 **	3	0.201" / 5.1mm	10	37
1602004 **	4	0.224" / 5.7mm	13	44
1602005 **	5	0.244" / 6.2mm	16	50
1602007 **	7	0.283" / 7.2mm	22	60
1602012	12	0.358" / 9.1mm	38	91
1602018	18	0.421" / 10.7mm	59	128
1602025	25	0.520" / 13.2mm	79	181
1602034	34	0.579" / 14.7mm	108	255
1602041	41	0.622" / 15.8mm	137	278
1602050	50	0.689" / 17.5mm	169	369
18 AWG (24/32) 0,75mm2				
1631802 OZ	2	0.213" / 5.4mm	9	30
1601803 **	3	0.224" / 5.7mm	15	36
1601804 **	4	0.244" / 6.2mm	19	43
1601805 **	5	0.268" / 6.8mm	24	51
1601807 **	7	0.319" / 8.1mm	34	64
1601812	12	0.390" / 9.9mm	58	114
1601818	18	0.469" / 11.9mm	87	174
1601825	25	0.571" / 14.5mm	121	189
1601834	34	0.642" / 16.3mm	158	319
1601841	41	0.697" / 17.7mm	190	402
1601850	50	0.764" / 19.4mm	223	483
17 AWG (32/32) 1,00mm2				
1631702 OZ	2	0.224" / 5.7mm	13	36
1601703 **	3	0.236" / 6.0mm	19	42
1601704 **	4	0.260" / 6.6mm	25	50
1601705 **	5	0.280" / 7.1mm	32	60
1601707 **	7	0.339" / 8.6mm	45	77
1601712	12	0.421" / 10.7mm	77	125
1601718	18	0.508" / 12.9mm	116	194
1601725	25	0.587" / 14.9mm	161	255
1601734	34	0.685" / 17.4mm	225	433
1601741	41	0.740" / 18.8mm	264	490
1601750	50	0.823" / 20.9mm	299	597
16 AWG (30/30) 1,50mm2				
1631602 OZ	2	0.244" / 6.2mm	19	46

Sizes continued on next page.

FLEX-P Polyurethane Jacket



FLEX-P Sizes Continued. (16 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
16 AWG (30/30) 1,50mm2 Cont.				
1601603 **	3	0.260" / 6.6mm	27	58
1601604 **	4	0.283" / 7.2mm	39	71
1601605 **	5	0.315" / 8.0mm	48	88
1601607 **	7	0.386" / 9.8mm	68	116
1601612	12	0.472" / 12.0mm	116	197
1601618	18	0.555" / 14.1mm	174	305
1601625	25	0.661" / 16.8mm	241	430
1601634	34	0.768" / 19.5mm	329	634
1601641	41	0.831" / 21.1mm	396	738
1601650	50	1.000" / 25.4mm	482	838
14 AWG (50/30) 2,50mm2				
1631402 OZ	2	0.307" / 7.8mm	33	74
1601403	3	0.327" / 8.3mm	48	98
1601404	4	0.362" / 9.2mm	64	123
1601405	5	0.398" / 10.1mm	80	149
1601407	7	0.484" / 12.3mm	113	197
1601412	12	0.602" / 15.3mm	193	343
1601418	18	0.717" / 18.2mm	289	496
1601425	25	0.909" / 23.1mm	402	630
12 AWG (56/28) 4,00mm2				
1601203	3	0.409" / 10.4mm	77	153
1601204	4	0.449" / 11.4mm	103	195
1601205	5	0.500" / 12.7mm	129	238
1601207	7	0.551" / 14.0mm	180	337
10 AWG (84/28) 6,00mm2				
1601003	3	0.476" / 12.1mm	116	243
1601004	4	0.528" / 13.4mm	154	314
1601005	5	0.587" / 14.9mm	193	382
1601007	7	0.650" / 16.5mm	270	542
8 AWG (80/26) 10,0mm2				
1600803	3	0.598" / 15.2mm	193	372
1600804	4	0.665" / 16.9mm	258	483
1600805	5	0.736" / 18.7mm	322	600
1600807	7	0.823" / 20.9mm	450	869
6 AWG (128/26) 16,0mm2				
1600604	4	0.780" / 19.8mm	412	713
1600605	5	0.874" / 22.2mm	515	939
4 AWG (200/26) 25,0mm2				
1600404	4	1.157" / 29.4mm	644	1066
2 AWG (280/26) 35,0mm2				
1600204	4	1.291" / 32.8mm	901	1476
1 AWG (400/26) 50,0mm2				
1600104	4	1.531" / 38.9mm	1288	1610
2/0 AWG (356/24) 70,0mm2				
1602104	4	1.760" / 44.7mm	1803	2951
3/0 AWG (485/24) 95,0mm2				
1603104	4	2.346" / 59.6mm	2447	4024

* Additional sizes may be available.

** Sizes available as FLEX-P-OZ (163) - no ground wire construction

FLEX-CP Polyurethane Jacket



FLEX-CP is a polyurethane, flexible, oil-resistant, overall shielded, multi-conductor power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. For use in flexible or stationary applications under high mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections and control to CNC machines, machine tools, control systems, assembly lines, control panel to machine connections, grinding machines and bottling equipment. Found in plant engineering, paint shops, power stations and refrigeration plants. The tinned copper braid shield provides interference-free data and signal transmissions and greater protection against electromagnetic distortion. The rugged polyurethane outer jacket ensures excellent chemical, coolant, abrasion and tear resistance making **FLEX-CP** suitable for applications in contact with mineral oils and chemicals. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special PVC core insulation
- Color code VDE-0293 - black & numbered
- Gray PVC inner jacket
- 85% Tinned Copper Braid
- PUR outer jacket - gray (RAL 7001)
- "OZ" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 3000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 6 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0250, 0282
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm2				
1642002 OZ	2	0.206" / 6.6mm	22	46
1612003 **	3	0.280" / 7.1mm	26	56
1612004 **	4	0.299" / 7.6mm	31	64
1612005 **	5	0.323" / 8.2mm	35	72
1612007 **	7	0.370" / 9.4mm	46	91
1612012	12	0.445" / 11.3mm	79	131
1612018	18	0.508" / 12.9mm	104	186
1612025	25	0.626" / 15.9mm	168	272
1612034	34	0.701" / 17.8mm	216	394
1612041	41	0.752" / 19.1mm	231	439
1612050	50	0.823" / 20.9mm	274	498
18 AWG (24/32) 0,75mm2				
1641802 OZ	2	0.283" / 7.2mm	27	59
1611803 **	3	0.303" / 7.7mm	33	66
1611804 **	4	0.323" / 8.2mm	39	75
1611805 **	5	0.346" / 8.8mm	47	87
1611807 **	7	0.398" / 10.1mm	58	124
1611812	12	0.484" / 12.3mm	101	197
1611818	18	0.575" / 14.6mm	138	239
1611825	25	0.701" / 17.8mm	173	342
1611834	34	0.736" / 18.7mm	222	461
1611841	41	0.846" / 21.5mm	272	638
1611850	50	0.909" / 23.1mm	322	738
17 AWG (32/32) 1,00mm2				
1641702 OZ	2	0.319" / 8.1mm	31	66
1611703 **	3	0.335" / 8.5mm	38	70
1611704 **	4	0.354" / 9.0mm	47	97
1611705 **	5	0.390" / 9.9mm	57	114
1611707 **	7	0.457" / 11.6mm	72	148
1611712	12	0.567" / 14.4mm	125	235
1611718	18	0.669" / 17.0mm	161	345
1611725	25	0.827" / 21.0mm	230	463
1611734	34	0.902" / 22.9mm	295	612
1611741	41	0.984" / 25.0mm	351	718
1611750	50	1.067" / 27.1mm	419	884

Sizes continued on next page.

FLEX-CP Polyurethane Jacket



FLEX-CP Sizes Continued. (16 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
16 AWG (30/30) 1,50mm²				
1641602 OZ	2	0.335" / 8.5mm	42	87
1611603 **	3	0.350" / 8.9mm	50	102
1611604 **	4	0.382" / 9.7mm	64	112
1611605 **	5	0.425" / 10.8mm	74	136
1611607 **	7	0.492" / 12.5mm	98	205
1611612	12	0.610" / 15.5mm	170	292
1611618	18	0.717" / 18.2mm	245	431
1611625	25	0.866" / 22.0mm	330	539
1611634	34	0.965" / 24.5mm	422	716
1611641	41	1.083" / 27.5mm	514	919
1611650	50	1.146" / 29.1mm	655	1125
14 AWG (50/30) 2,50mm²				
1641402 OZ	2	0.386" / 9.8mm	64	121
1611403	3	0.421" / 10.7mm	99	144
1611404	4	0.449" / 11.4mm	117	180
1611405	5	0.492" / 12.5mm	134	234
1611407	7	0.587" / 14.9mm	157	272
1611412	12	0.724" / 18.4mm	248	483
12 AWG (56/28) 4,00mm²				
1611203	3	0.496" / 12.6mm	119	228
1611204	4	0.559" / 14.2mm	149	274
1611205	5	0.614" / 15.6mm	219	338
1611207	7	0.673" / 17.1mm	237	429
10 AWG (84/28) 6,00mm²				
1611003	3	0.583" / 14.8mm	162	304
1611004	4	0.634" / 16.1mm	205	376
1611005	5	0.709" / 18.0mm	295	470
1611007	7	0.772" / 19.6mm	339	607
8 AWG (80/26) 10,0mm²				
1610803	3	0.717" / 18.2mm	248	503
1610804	4	0.799" / 20.3mm	325	686
1610805	5	0.882" / 22.4mm	410	747
1610807	7	0.972" / 24.7mm	551	1009
6 AWG (128/26) 16,0mm²				
1610604	4	0.921" / 23.4mm	698	929
1610605	5	1.024" / 26.0mm	934	1040
4 AWG (200/26) 25,0mm²				
1610404	4	1.169" / 29.7mm	880	1270
2 AWG (280/26) 35,0mm²				
1610204	4	1.335" / 33.9mm	1081	1606
1 AWG (400/26) 50,0mm²				
1610104	4	1.535" / 39.0mm	1488	2221
2/0 AWG (356/24) 70,0mm²				
1612104	4	1.835" / 46.6mm	2074	3089
3/0 AWG (485/24) 95,0mm²				
1613104	4	2.004" / 50.9mm	2725	4061
4/0 AWG (614/24) 120,0mm²				
1614104	4	2.185" / 55.5mm	3457	4908

* Additional sizes may be available.

** Sizes available as FLEX-CP-OZ (164) - no ground wire construction

Flexible Control Cables

FLEX-UL-P UL/CSA/CE



FLEX-UL-P is polyurethane, flexible, oil-resistant, multi-conductor power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. Especially designed for the North American market by carrying UL and CSA approvals. For use in flexible or stationary applications under high mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections and control to CNC machines, machine tools, control systems, assembly lines, control panel to machine connections, grinding machines and bottling equipment. Found in plant engineering, paint shops, power stations and refrigeration plants. The rugged polyurethane outer jacket ensures excellent chemical, coolant, abrasion and tear resistance making **FLEX-UL-P** suitable for applications in contact with mineral oils and chemicals. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Special PVC core insulation
- Color code VDE-0293 - black & numbered
- Ground wire in outer layer
- PUR outer jacket - gray (RAL 7001)
- "OZ" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 (600v UL)
- Test voltage: 3000 volts
- Flexing bending radius: 12.5 x Ø
- Static bending radius: 5 x Ø
- Flexing temp: -5° C to +80° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1, FT1
- Insulation resistance: 20 MΩ x km

Approvals:

- UL Style 10012 / 20234
- CSA AWM II A/B FT1
- VDE 0250 & 0282
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
21 AWG (16/32) 0,50mm2				
1702102 OZ	2	0.244" / 6.2mm	7	35
1702103	3	0.256" / 6.5mm	9	39
1702104	4	0.276" / 7.0mm	13	47
1702105	5	0.299" / 7.6mm	16	54
1702107	7	0.323" / 8.2mm	23	67
1702109	9	0.382" / 9.7mm	29	81
1702112	12	0.417" / 10.6mm	39	98
1702118	18	0.484" / 12.3mm	58	138
1702125	25	0.583" / 14.8mm	80	176
19 AWG (24/32) 0,75mm2				
1701902 OZ	2	0.268" / 6.8mm	9	40
1701903	3	0.283" / 7.2mm	15	48
1701904	4	0.303" / 7.7mm	19	58
1701905	5	0.327" / 8.3mm	24	70
1701907	7	0.354" / 9.0mm	34	85
1701909	9	0.413" / 10.5mm	43	100
1701912	12	0.453" / 11.5mm	58	119
1701918	18	0.528" / 13.4mm	87	170
1701925	25	0.626" / 15.9mm	121	226
18 AWG (32/32) 1,00mm2				
1701802 OZ	2	0.276" / 7.0mm	13	45
1701803	3	0.291" / 7.4mm	19	52
1701804	4	0.311" / 7.9mm	25	64
1701805	5	0.339" / 8.6mm	32	75
1701807	7	0.366" / 9.3mm	45	92
1701809	9	0.433" / 11.0mm	58	115
1701812	12	0.476" / 12.1mm	77	143
1701818	18	0.563" / 14.3mm	116	203
1701825	25	0.669" / 17.0mm	161	264
1701834	34	0.776" / 19.7mm	219	364
1701841	41	0.850" / 21.6mm	264	419
1701850	50	0.906" / 23.0mm	322	487
16 AWG (30/30) 1,50mm2				
1701602 OZ	2	0.299" / 7.6mm	19	53
1701603	3	0.315" / 8.0mm	29	63

Sizes continued on next page.

FLEX-UL-P UL/CSA/CE



FLEX-UL-P Sizes Continued. (16 AWG & Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
16 AWG (30/30) 1,50mm2 Cont.				
1701604	4	0.343" / 8.7mm	39	77
1701605	5	0.370" / 9.4mm	48	91
1701607	7	0.421" / 10.7mm	68	114
1701609	9	0.472" / 12.0mm	87	142
1701612	12	0.524" / 13.3mm	116	178
1701618	18	0.610" / 15.5mm	175	254
1701625	25	0.728" / 18.5mm	243	335
1701634	34	0.854" / 21.7mm	320	434
1701641	41	0.937" / 23.8mm	398	533
1701650	50	0.988" / 25.1mm	483	641
14 AWG (50/30) 2,50mm2				
1701402 OZ	2	0.339" / 8.6mm	32	77
1701403	3	0.358" / 9.1mm	48	96
1701404	4	0.390" / 9.9mm	64	124
1701405	5	0.425" / 10.8mm	80	148
1701407	7	0.461" / 11.7mm	113	197
1701409	9	0.547" / 13.9mm	145	288
1701412	12	0.602" / 15.3mm	193	378
1701418	18	0.705" / 17.9mm	290	573
1701425	25	0.906" / 23.0mm	402	797
12 AWG (56/28) 4,00mm2				
1701203	3	0.441" / 11.2mm	77	156
1701204	4	0.492" / 12.5mm	103	200
1701205	5	0.543" / 13.8mm	129	240
1701207	7	0.642" / 16.3mm	180	309
10 AWG (84/28) 6,00mm2				
1701003	3	0.508" / 12.9mm	116	241
1701004	4	0.559" / 14.2mm	155	270
1701005	5	0.626" / 15.9mm	193	325
1701007	7	0.764" / 19.4mm	270	423
8 AWG (80/26) 10,0mm2				
1700803	3	0.665" / 16.9mm	193	359
1700804	4	0.728" / 18.5mm	258	438
1700805	5	0.799" / 20.3mm	322	527
1700807	7	0.878" / 22.3mm	451	738
6 AWG (128/26) 16,0mm2				
1700603	3	0.807" / 20.5mm	309	543
1700604	4	0.906" / 23.0mm	413	701
1700605	5	1.004" / 25.5mm	515	845
1700607	7	1.110" / 28.2mm	721	1180
4 AWG (200/26) 25,0mm2				
1700403	3	0.984" / 25.0mm	483	791
1700404	4	1.106" / 28.1mm	644	1011
1700405	5	1.217" / 30.9mm	805	1246
1700407	7	1.398" / 35.5mm	1127	1698
2 AWG (280/26) 35,0mm2				
1700203	3	1.126" / 28.6mm	676	1066
1700204	4	1.248" / 31.7mm	901	1424
1 AWG (400/26) 50,0mm2				
1700104	4	1.409" / 35.8mm	1288	2051
2/0 AWG (356/24) 70,0mm2				
1702004	4	1.638" / 41.6mm	1803	2853
3/0 AWG (485/24) 95,0mm2				
1703104	4	1.811" / 46.0mm	2447	3865
4/0 AWG (614/24) 120,0mm2				
1704104	4	2.079" / 52.8mm	3091	4883

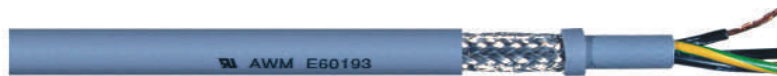
* Additional sizes may be available.

Flexible Control Cables

FLEX-UL-CP UL/CSA/CE



FLEX-UL-CP is polyurethane, flexible, oil-resistant, overall shielded, multi-conductor power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. Especially designed for the North American market by carrying UL and CSA approvals. For use in flexible or stationary applications under high mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections and control to CNC machines, machine tools, control systems, assembly lines, control panel to machine connections, grinding machines and bottling equipment. Found in plant engineering, paint shops, power stations and refrigeration plants. The tinned copper braid provides interference-free data and signal transmissions and greater protection against electromagnetic distortion. The rugged polyurethane outer jacket ensures excellent chemical, coolant, abrasion and tear resistance making **FLEX-UL-CP** suitable for applications in contact with mineral oils and chemicals. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special PVC core insulation
- Color code VDE-0293 - black & numbered
- Gray inner PVC jacket
- 85% Tinned Copper Braid
- PUR outer jacket - gray (RAL 7001)
- "OZ" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 (600v UL)
- Test voltage: 3000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 7 x Ø
- Flexing temp: -5° C to +80° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1, FT1
- Insulation resistance: 20 MΩ x km

Approvals:

- UL Style 10012 / 20234
- CSA AWM II A/B FT1
- VDE 0250 & 0282
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
21 AWG (16/32) 0,50mm2				
1712102 OZ	2	0.276" / 7.0mm	15	46
1712103	3	0.287" / 7.3mm	19	56
1712104	4	0.307" / 7.8mm	23	65
1712105	5	0.331" / 8.4mm	28	73
1712107	7	0.354" / 9.0mm	35	85
1712109	9	0.409" / 10.4mm	44	103
1712112	12	0.445" / 11.3mm	56	116
1712118	18	0.520" / 13.2mm	88	164
1712125	25	0.610" / 15.5mm	117	213
19 AWG (24/32) 0,75mm2				
1711902 OZ	2	0.291" / 7.4mm	19	54
1711903	3	0.307" / 7.8mm	24	64
1711904	4	0.327" / 8.3mm	30	74
1711905	5	0.350" / 8.9mm	36	84
1711907	7	0.378" / 9.6mm	47	101
1711909	9	0.437" / 11.1mm	60	121
1711912	12	0.476" / 12.1mm	76	146
1711918	18	0.559" / 14.2mm	120	202
1711925	25	0.657" / 16.7mm	161	262
18 AWG (32/32) 1,00mm2				
1711802 OZ	2	0.299" / 7.6mm	22	61
1711803	3	0.315" / 8.0mm	30	71
1711804	4	0.335" / 8.5mm	38	82
1711805	5	0.362" / 9.2mm	46	94
1711807	7	0.390" / 9.9mm	59	116
1711809	9	0.453" / 11.5mm	75	140
1711812	12	0.500" / 12.7mm	96	176
1711818	18	0.587" / 14.9mm	150	239
1711825	25	0.693" / 17.6mm	202	311
1711834	34	0.807" / 20.5mm	282	426
1711841	41	0.870" / 22.1mm	338	500
1711850	50	0.937" / 23.8mm	397	599
16 AWG (30/30) 1,50mm2				
1711602 OZ	2	0.323" / 8.2mm	30	72

Sizes continued on next page.

FLEX-UL-CP UL/CSA/CE



FLEX-UL-CP Sizes Continued. (16 AWG & Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
16 AWG (30/30) 1,50mm2 Cont.				
1711603	3	0.339" / 8.6mm	60	82
1711604	4	0.366" / 9.3mm	65	96
1711605	5	0.394" / 10.0mm	74	112
1711607	7	0.425" / 10.8mm	99	137
1711609	9	0.496" / 12.6mm	129	168
1711612	12	0.551" / 14.0mm	172	215
1711618	18	0.638" / 16.2mm	255	294
1711625	25	0.764" / 19.4mm	365	382
1711634	34	0.874" / 22.2mm	452	642
1711641	41	0.984" / 25.0mm	591	749
1711650	50	1.094" / 27.8mm		998
14 AWG (50/30) 2,50mm2				
1711402 OZ	2	0.362" / 9.2mm	49	96
1711403	3	0.382" / 9.7mm	74	126
1711404	4	0.413" / 10.5mm	95	170
1711405	5	0.449" / 11.4mm	113	220
1711407	7	0.484" / 12.3mm	169	287
1711409	9	0.579" / 14.7mm	219	389
1711412	12	0.634" / 16.1mm	288	510
1711418	18	0.714" / 18.1mm	429	764
1711425	25	0.843" / 21.4mm	598	1040
12 AWG (56/28) 4,00mm2				
1711203	3	0.516" / 13.1mm	133	208
1711204	4	0.575" / 14.6mm	156	306
1711205	5	0.622" / 15.8mm	184	357
1711207	7	0.752" / 19.1mm	265	494
10 AWG (84/28) 6,00mm2				
1711003	3	0.598" / 15.2mm	162	276
1711004	4	0.654" / 16.6mm	212	384
1711005	5	0.724" / 18.4mm	276	491
1711007	7	0.874" / 22.2mm	382	645
8 AWG (80/26) 10,0mm2				
1710803	3	0.724" / 19.1mm	279	497
1710804	4	0.831" / 21.1mm	383	663
1710805	5	0.937" / 23.8mm	463	806
1710807	7	1.043" / 26.5mm	651	1169
6 AWG (128/26) 16,0mm2				
1710603	3	0.953" / 24.2mm	443	730
1710604	4	1.071" / 27.2mm	551	1115
1710605	5	1.205" / 30.6mm	756	1356
1710607	7	1.323" / 33.6mm	1014	1824
4 AWG (200/26) 25,0mm2				
1710403	3	1.189" / 30.2mm	732	1306
1710404	4	1.315" / 33.4mm	968	1738
1710405	5	1.449" / 36.8mm	1209	2144
1710407	7	1.598" / 40.6mm	1690	3038
2 AWG (280/26) 35,0mm2				
1710203	3	1.331" / 33.8mm	1007	1812
1710204	4	1.484" / 37.7mm	1267	2198
1 AWG (400/26) 50,0mm2				
1710104	4	1.646" / 41.8mm	1482	2260
2/0 AWG (356/24) 70,0mm2				
1712004	4	1.850" / 47.0mm	1955	3105
3/0 AWG (485/24) 95,0mm2				
1713104	4	2.008" / 51.0mm	2629	4101
4/0 AWG (614/24) 120,0mm2				
1714104	4	2.283" / 58.0mm	3419	4975

* Additional sizes may be available.

FLEX-54-P Yellow Polyurethane



FLEX-54-P is a yellow polyurethane, flexible, oil-resistant, multi-conductor safety, power and control cable designed for use in all electrical equipment in wet and dry conditions in both hot and cold temperatures. Suitable for use in flexible or stationary applications. Common applications include machine tool connections, extension and connections to hand-held devices and in construction and camping appliances. Found in portable hand tools, power supply lines, construction sites, mobile sales booths, gardening equipment, agriculture equipment and car wash equipments. The rugged halogen-free and flame retardant polyurethane outer jacket ensures excellent chemical, coolant, abrasion and tear resistance making **FLEX-54-P** suitable for applications in contact with mineral oils and chemicals. Indoor and outdoor installations are both permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Special TPE core insulation
- Color code VDE-0293-308
- Cores twisted in layers
- PUR outer jacket - yellow (RAL 1016)
- "OB" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Voltage 450/750v (16 AWG and up)
- Test voltage: 3000 volts
- Flexing bending radius: 10 x Ø
- Static bending radius: 5 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0250, 0282
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
18 AWG (24/32) 0,75mm2				
1741802 OB	2	0.260" / 6.6mm	9	34
1741803	3	0.276" / 7.0mm	14	47
1741804	4	0.299" / 7.6mm	19	54
1741805	5	0.335" / 8.5mm	24	66
1741807 *	7	0.402" / 10.2mm	34	95
17 AWG (32/32) 1,0mm2				
1741702 OB	2	0.276" / 7.0mm	13	42
1741703	3	0.291" / 7.4mm	19	51
1741704	4	0.323" / 8.2mm	25	62
1741705	5	0.354" / 9.0mm	32	81
1741707 *	7	0.429" / 10.9mm	46	115
16 AWG (30/30) 1,50mm2				
1741602 OB	2	0.331" / 8.4mm	19	54
1741603	3	0.350" / 8.9mm	29	77
1741604	4	0.390" / 9.9mm	39	97
1741605	5	0.429" / 10.9mm	48	119
1741607 *	7	0.547" / 13.9mm	68	179
14 AWG (50/30) 2,50mm2				
1741402 OB	2	0.394" / 10.0mm	32	101
1741403	3	0.417" / 10.6mm	48	116
1741404	4	0.465" / 11.8mm	61	150
1741405	5	0.528" / 13.4mm	80	181
1741407 *	7	0.622" / 15.8mm	161	215
12 AWG (56/28) 4,0mm2				
1741203	3	0.512" / 13.0mm	77	176
1741204	4	0.559" / 14.2mm	103	198
1741205	5	0.630" / 16.0mm	129	239
10 AWG (84/28) 6,0mm2				
1741004	4	0.634" / 16.1mm	154	295
1741005	5	0.693" / 17.6mm	193	355
8 AWG (80/26) 10,0mm2				
1740804	4	0.783" / 19.9mm	258	412
1740805	5	0.874" / 22.2mm	322	492

* 7-core color code is all black w/ white numbers and a green/yellow ground.

** Additional sizes may be available.

FLEX-54-CP Yellow Polyurethane



FLEX-54-CP is a yellow polyurethane, flexible, oil-resistant, overall shielded, multi-conductor safety power supply cable designed for use in all electrical equipment in wet and dry conditions in both hot and cold temperatures. Suitable for use in flexible or stationary applications. Common applications include machine tool connections, extension and connections to hand-held devices and in construction and camping appliances. Found in portable hand tools, power supply lines, construction sites, mobile sales booths, gardening equipment, agriculture equipment and car wash equipments. The halogen-free and flame retardant polyurethane outer jacket ensures excellent chemical, coolant, abrasion and tear resistance making **FLEX-54-CP** suitable for applications in contact with mineral oils and chemicals. The tinned copper braid ensures interruption-free power and supply used in data processing. Indoor and outdoor installations are both permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Special TPE core insulation
- Color code VDE-0293-308
- Cores twisted in layers
- Yellow TPE inner jacket
- 85% Tinned Copper Braid
- PUR outer jacket - yellow (RAL 1016)
- "OB" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Voltage 450/750v (16 AWG and up)
- Test voltage: 3000 volts
- Flexing bending radius: 12,5 x Ø
- Static bending radius: 5 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0250, 0282
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
18 AWG (24/32) 0,75mm²				
1751802 OB	2	0.339" / 8.6mm	30	69
1751803	3	0.378" / 9.6mm	46	94
1751804	4	0.402" / 10.2mm	50	105
1751805	5	0.425" / 10.8mm	57	110
1751807 *	7	0.488" / 12.4mm	64	142
17 AWG (32/32) 1,00mm²				
1751702 OB	2	0.378" / 9.6mm	44	93
1751703	3	0.394" / 10.1mm	50	103
1751704	4	0.409" / 10.4mm	52	110
1751705	5	0.441" / 11.2mm	58	124
1751707 *	7	0.547" / 13.9mm	93	189
16 AWG (30/30) 1,50mm²				
1751602 OB	2	0.417" / 10.6mm	46	107
1751603	3	0.437" / 11.2mm	55	122
1751604	4	0.476" / 12.1mm	68	146
1751605	5	0.539" / 13.7mm	96	193
1751607 *	7	0.657" / 16.7mm	131	265
14 AWG (50/30) 2,50mm²				
1751402 OB	2	0.480" / 12.2mm	62	143
1751403	3	0.528" / 13.4mm	80	177
1751404	4	0.575" / 14.6mm	113	224
1751405	5	0.654" / 16.6mm	137	280
12 AWG (56/28) 4,0mm²				
1751203	3	0.638" / 16.2mm	133	273
1751204	4	0.685" / 17.4mm	161	320
1751205	5	0.764" / 19.4mm	213	404
10 AWG (84/28) 6,0mm²				
1751004	4	0.756" / 19.2mm	238	426
1751005	5	0.756" / 20.9mm	303	426
8 AWG (80/26) 10,0mm²				
1750804	4	0.929" / 23.6mm	387	667
1750805	5	0.929" / 25.5mm	457	667

* 7 core color code is all black w/ white numbers and a green/yellow ground.

** Additional sizes may be available.

FLEX-H Halogen-Free



FLEX-H is a low smoke, zero halogen, flexible, oil-resistant, multi-conductor power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. For use in flexible or stationary applications under medium mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections to machinery, data processing, production lines, conveyor belts, ventilation and air-conditioning systems. Found in public facilities, airports, railway stations, plant construction, steel mills, offices and in areas exposed to high risk of flame or fires. The flame retardant, halogen-free jacket gives off no corrosive gases and low smoke when exposed to fire, making **FLEX-H** suitable in areas of high risk or potential for fire. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special Halogen-Free core insulation
- Color code VDE-0293 - black & numbered
- Ground wire in outer layer
- Halogen-Free outer jacket - gray (RAL 7001)
- "OZ" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 3000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 5 x Ø
- Flexing temp: -30° C to +70° C
- Static temp: -40° C to +70° C
- Flame retardant: **IEC 60332.3**
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0250, 0281, 0282
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm2				
1842002 OZ	2	0.189" / 4.8mm	7	28
1802003 **	3	0.201" / 5.1mm	9	33
1802004 **	4	0.224" / 5.7mm	13	40
1802005 **	5	0.244" / 6.2mm	16	47
1802007	7	0.291" / 7.4mm	22	56
1802008	8	0.314" / 8.0mm	25	67
1802010	10	0.346" / 8.8mm	32	81
1802012	12	0.358" / 9.1mm	39	95
1802018	18	0.421" / 10.7mm	58	136
1802020	20	0.440" / 11.2mm	64	152
1802025	25	0.512" / 13.0mm	80	189
1802034	34	0.571" / 14.5mm	109	246
1802041	41	0.622" / 15.8mm	132	279
18 AWG (24/32) 0,75mm2				
1841802 OZ	2	0.205" / 5.2mm	9	31
1801803 **	3	0.217" / 5.5mm	15	37
1801804 **	4	0.244" / 6.2mm	19	46
1801805 **	5	0.268" / 6.8mm	24	55
1801807 **	7	0.319" / 8.1mm	34	76
1801809	9	0.354" / 9.0mm	40	91
1801810	10	0.377" / 9.6mm	48	115
1801812	12	0.390" / 9.9mm	58	122
1801816	16	0.437" / 11.1mm	77	161
1801818	18	0.469" / 11.9mm	87	178
1801820	20	0.499" / 12.7mm	97	195
1801825	25	0.571" / 14.5mm	121	250
1801834	34	0.646" / 16.4mm	164	346
1801841	41	0.693" / 17.6mm	199	409
1801850	50	0.780" / 19.8mm	241	497
17 AWG (32/32) 1,00mm2				
1841702 OZ	2	0.217" / 5.5mm	13	42
1801703 **	3	0.236" / 6.0mm	19	49
1801704 **	4	0.260" / 6.6mm	25	60
1801705	5	0.283" / 7.2mm	32	73
1801707	7	0.339" / 8.6mm	45	101

Sizes continued on next page.

FLEX-H Halogen-Free



FLEX-H Sizes Continued. (17 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
17 AWG (32/32) 1,00mm² Cont.				
1801708	8	0.370" / 9.4mm	52	123
1801710	10	0.409" / 10.4mm	64	150
1801712	12	0.421" / 10.7mm	77	163
1801718	18	0.500" / 12.7mm	116	242
1801725	25	0.598" / 15.2mm	161	333
1801734	34	0.685" / 17.4mm	219	449
1801741	41	0.744" / 18.9mm	264	526
1801750	50	0.827" / 21.0mm	322	639
16 AWG (30/30) 1,50mm²				
1841602 OZ	2	0.248" / 6.3mm	19	47
1801603 **	3	0.264" / 6.7mm	29	63
1801604	4	0.287" / 7.3mm	39	75
1801605	5	0.323" / 8.2mm	48	95
1801607	7	0.386" / 9.8mm	68	128
1801608	8	0.417" / 10.6mm	77	150
1801609	9	0.437" / 11.1mm	86	174
1801610	10	0.460" / 11.7mm	97	189
1801612	12	0.476" / 12.1mm	116	209
1801614	14	0.503" / 12.8mm	133	235
1801618	18	0.571" / 14.5mm	174	302
1801625	25	0.701" / 17.8mm	241	423
1801634	34	0.780" / 19.8mm	329	565
1801641	41	0.839" / 21.3mm	433	662
1801650	50	0.933" / 23.7mm	483	823
1801661	61	0.996" / 25.3mm	589	979
14 AWG (50/30) 2,50mm²				
1841402 OZ	2	0.299" / 7.6mm	32	79
1801403	3	0.327" / 8.3mm	48	101
1801404	4	0.358" / 9.1mm	64	121
1801405	5	0.402" / 10.2mm	80	150
1801407	7	0.476" / 12.1mm	113	212
1801412	12	0.598" / 15.2mm	193	335
1801418	18	0.713" / 18.1mm	290	516
1801425	25	0.874" / 22.2mm	402	702
12 AWG (56/28) 4,00mm²				
1801203	3	0.389" / 9.9mm	77	166
1801204	4	0.433" / 11.0mm	103	201
1801205	5	0.476" / 12.1mm	129	248
1801207	7	0.523" / 13.3mm	180	311
10 AWG (84/28) 6,00mm²				
1801003	3	0.460" / 11.7mm	116	241
1801004	4	0.511" / 13.0mm	154	288
1801005	5	0.570" / 14.5mm	193	355
1801007	7	0.629" / 16.0mm	270	423
8 AWG (80/26) 10,0mm²				
1800803	3	0.590" / 15.0mm	193	369
1800804	4	0.661" / 16.8mm	258	475
1800805	5	0.736" / 18.7mm	322	578
6 AWG (128/26) 16,0mm²				
1800603	3	0.692" / 17.6mm	309	557
1800604	4	0.775" / 19.7mm	412	711
1800605	5	0.862" / 21.9mm	515	852
4 AWG (200/26) 25,0mm²				
1800404	4	0.992" / 25.2mm	644	1069
1800405	5	1.098" / 27.9mm	805	1351

* Additional sizes may be available.

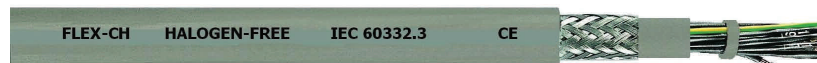
** Sizes available as FLEX-H-OZ (184) - no ground wire construction.

*** For sizes larger than #4 AWG (25,0mm²) see product FLEX-H-JB (182)

FLEX-CH Shielded Halogen-Free



FLEX-CH is a low smoke, zero halogen, flexible, oil-resistant, overall shielded, multi-conductor power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. For use in flexible or stationary applications under medium mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections to machinery, data processing, production lines, conveyor belts, ventilation and air-conditioning systems. Found in public facilities, airports, railway stations, plant construction, steel mills, offices and in areas exposed to high risk of flame or fires. The flame retardant, halogen-free jacket gives off no corrosive gases and low smoke when exposed to fire, making **FLEX-CH** suitable in areas of high risk or potential for fire. The overall tinned copper braid is recommended where there is electrical interference, distorted signals or EMI emissions. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Special Halogen-Free core insulation
- Color code VDE-0293 - black & numbered
- Special Halogen-Free inner jacket
- 85% Tinned Copper Braid
- Halogen-Free outer jacket - gray (RAL 7001)
- "OZ" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 3000 volts
- Flexing bending radius: 20 x Ø
- Static bending radius: 6 x Ø
- Flexing temp: -30° C to +70° C
- Static temp: -40° C to +70° C
- Flame retardant: **IEC 60332.3**
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0250, 0281, 0282
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm²				
1852002 OZ	2	0.276" / 7.0mm	23	54
1812003 **	3	0.287" / 7.3mm	30	71
1812004 **	4	0.303" / 7.7mm	37	83
1812005 **	5	0.327" / 8.3mm	44	90
1812007	7	0.390" / 9.9mm	54	107
1812012	12	0.441" / 11.2mm	93	159
1812018	18	0.524" / 13.3mm	125	225
1812025	25	0.606" / 15.4mm	168	270
18 AWG (24/32) 0,75mm²				
1851802 OZ	2	0.295" / 7.5mm	30	77
1811803 **	3	0.307" / 7.8mm	39	84
1811804 **	4	0.354" / 9.0mm	43	95
1811805 **	5	0.378" / 9.6mm	52	109
1811807 **	7	0.425" / 10.8mm	68	125
1811812	12	0.504" / 12.8mm	119	210
1811818	18	0.587" / 14.9mm	163	306
1811825	25	0.736" / 18.7mm	207	386
17 AWG (32/32) 1,00mm²				
1851702 OZ	2	0.303" / 7.7mm	34	85
1811703 **	3	0.315" / 8.0mm	44	94
1811704 **	4	0.362" / 9.2mm	52	107
1811705	5	0.386" / 9.8mm	60	122
1811707	7	0.441" / 11.2mm	76	144
1811712	12	0.520" / 13.2mm	126	236
1811718	18	0.606" / 15.4mm	192	345
1811725	25	0.760" / 19.3mm	260	454
1811734	34	0.807" / 20.5mm	298	580
1811741	41	0.898" / 22.8mm	388	677
16 AWG (30/30) 1,50mm²				
1851602 OZ	2	0.327" / 8.3mm	52	115
1811603 **	3	0.366" / 9.3mm	56	125

Sizes continued on next page.

FLEX-CH Shielded Halogen-Free



FLEX-CH Sizes Continued. (17 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
16 AWG (30/30) 1,50mm² Cont.				
1811604	4	0.390" / 9.9mm	67	135
1811605	5	0.417" / 10.6mm	84	155
1811607	7	0.504" / 12.8mm	131	208
1811612	12	0.574" / 14.5mm	188	339
1811618	18	0.681" / 17.3mm	261	419
1811625	25	0.791" / 20.1mm	355	596
14 AWG (50/30) 2,50mm²				
1811403	3	0.425" / 10.8mm	98	142
1811404	4	0.457" / 11.6mm	112	239
1811405	5	0.531" / 13.2mm	134	259
1811407	7	0.610" / 15.5mm	193	334
1811412	12	0.748" / 19.0mm	320	524
12 AWG (56/28) 4,00mm²				
1811203	3	0.504" / 12.8mm	133	208
1811204	4	0.528" / 13.4mm	159	307
1811205	5	0.579" / 14.7mm	188	357
1811207	7	0.685" / 17.4mm	260	514
10 AWG (84/28) 6,00mm²				
1811003	3	0.654" / 16.6mm	162	276
1811004	4	0.689" / 17.5mm	213	410
1811005	5	0.728" / 18.5mm	304	516
1811007	7	0.823" / 20.9mm	352	694
8 AWG (80/26) 10,0mm²				
1810803	3	0.677" / 17.2mm	279	497
1810804	4	0.803" / 20.4mm	383	663
1810805	5	0.870" / 22.1mm	463	806
6 AWG (128/26) 16,0mm²				
1810604	4	1.016" / 25.8mm	539	1115
1810605	5	1.142" / 29.0mm	605	1356
4 AWG (200/26) 25,0mm²				
1810404	4	1.189" / 30.2mm	865	1738
1810405	5	1.339" / 34.0mm	942	2144
2 AWG (280/26) 35,0mm²				
1810204	4	1.260" / 32.0mm	1267	2198
1810205	5	1.457" / 37.0mm	1698	3038
1 AWG (400/26) 50,0mm²				
1810104	4	1.669" / 42.4mm	1571	2509
2/0 AWG (356/24) 70,0mm²				
1812104	4	1.874" / 47.6mm	1994	3390
3/0 AWG (485/24) 95,0mm²				
1813104	4	2.035" / 51.7mm	2720	4311
4/0 AWG (614/24) 120,0mm²				
1814104	4	2.205" / 56.0mm	3852	5670

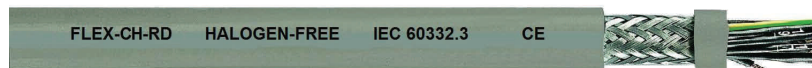
* Additional sizes may be available.

** Sizes available as FLEX-CH-OZ (185) - no ground wire construction.

FLEX-CH-RD Reduced OD



FLEX-CH-RD is a low smoke, zero halogen, cost effective, reduced diameter, flexible, overall shielded, multi-conductor power and control cable designed for use in all electrical equipment in dry and damp conditions. For use in flexible or stationary applications under medium mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections to machinery, data processing, production lines, conveyor belts, ventilation and air-conditioning systems. Found in public facilities, airports, railway stations, plant construction, steel mills, offices and in areas exposed to high risk of flame or fires. The flame retardant, halogen-free jacket gives off no corrosive gases and low smoke when exposed to fire, making **FLEX-CH-RD** suitable in areas of high risk or potential for fire. The overall tinned copper braid is recommended where there is electrical interference, distorted signals or EMI emissions. The common inner jacket is replaced by a plastic foil separator giving this cable a reduced diameter, bending radius and weight. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Special Halogen-Free core insulation
- Color code VDE-0293 - black & numbered
- Plastic foil separator
- 85% Tinned Copper Braid
- Halogen-Free outer jacket - gray (RAL 7001)
- "OZ" denotes no ground wire
- **Low oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 3000 volts
- Flexing bending radius: 20 x Ø
- Static bending radius: 6 x Ø
- Flexing temp: -15° C to +70° C
- Static temp: -40° C to +70° C
- Flame retardant: **IEC 60332.3**
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0250, 0281, 0282
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm²				
1872002 OZ	2	0.228" / 5.8mm	24	34
1862003 **	3	0.240" / 6.1mm	29	41
1862004 **	4	0.356" / 6.5mm	33	48
1862005 **	5	0.276" / 7.0mm	38	57
1862007 **	7	0.299" / 7.6mm	46	69
1862012	12	0.390" / 9.9mm	70	111
1862018	18	0.457" / 11.6mm	95	158
1862025	25	0.535" / 13.6mm	150	217
18 AWG (24/32) 0,75mm²				
1871802 OZ	2	0.244" / 6.2mm	29	40
1861803 **	3	0.256" / 6.5mm	35	52
1861804 **	4	0.276" / 7.0mm	41	58
1861805 **	5	0.303" / 7.7mm	48	71
1861807 **	7	0.327" / 8.3mm	60	87
1861812 **	12	0.429" / 10.9mm	93	142
1861818	18	0.500" / 12.7mm	142	206
1861825	25	0.591" / 15.0mm	188	277
17 AWG (32/32) 1,00mm²				
1871702 OZ	2	0.256" / 6.5mm	34	53
1861703 **	3	0.268" / 6.8mm	42	59
1861704 **	4	0.291" / 7.4mm	50	71
1861705 **	5	0.319" / 8.1mm	59	83
1861707 **	7	0.346" / 8.8mm	75	104
1861712 **	12	0.453" / 11.5mm	124	168
1861718	18	0.543" / 13.8mm	180	247
1861725 **	25	0.634" / 16.1mm	237	331
16 AWG (30/30) 1,50mm²				
1871602 OZ	2	0.280" / 7.1mm	44	61
1861603 **	3	0.295" / 7.5mm	55	75
1861604 **	4	0.323" / 8.2mm	67	95
1861605 **	5	0.350" / 8.9mm	80	108

Sizes continued on next page.

FLEX-CH-RD Reduced OD



FLEX-CH-RD Sizes Continued. (16 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
16 AWG (30/30) 1,50mm² Cont.				
1861607	7	0.390" / 9.9mm	103	138
1861612	12	0.512" / 13.0mm	180	238
1861618	18	0.610" / 15.5mm	250	347
1861625	25	0.713" / 18.1mm	355	473
14 AWG (50/30) 2,50mm²				
1861402	2	0.327" / 8.3mm	64	85
1861403	3	0.354" / 9.0mm	79	105
1861404	4	0.390" / 9.9mm	99	135
1861405	5	0.433" / 11.0mm	118	166
1861407	7	0.469" / 11.9mm	170	210
1861412	12	0.626" / 15.9mm	258	351
12 AWG (56/28) 4,00mm²				
1861203	3	0.421" / 10.7mm	119	155
1861204	4	0.461" / 11.7mm	166	195
1861205	5	0.508" / 12.9mm	180	242
1861207	7	0.559" / 14.2mm	249	314
10 AWG (84/28) 6,00mm²				
1861003	3	0.492" / 12.5mm	161	213
1861004	4	0.547" / 13.9mm	230	293
1861005	5	0.606" / 15.4mm	296	342
1861007	7	0.665" / 16.9mm	342	444
8 AWG (80/26) 10,0mm²				
1860804	4	0.685" / 17.4mm	359	459
1860805	5	0.768" / 19.5mm	397	553
1860807	7	0.846" / 21.5mm	550	716
6 AWG (128/26) 16,0mm²				
1860604	4	0.795" / 20.2mm	494	695
1860605	5	0.890" / 22.6mm	600	862
4 AWG (200/26) 25,0mm²				
1860404	4	0.988" / 25.1mm	757	1115
1860405	5	1.102" / 28.0mm	939	1325
2 AWG (280/26) 35,0mm²				
1860204	4	1.118" / 28.4mm	1037	1376
1860205	5	1.248" / 31.7mm	1282	1704
1 AWG (400/26) 50,0mm²				
1860104	4	1.339" / 34.0mm	1447	1937
2/0 AWG (356/24) 70,0mm²				
1862104	4	1.626" / 41.3mm	2025	3312
3/0 AWG (485/24) 50,0mm²				
1863104	4	1.819" / 46.2mm	2691	4487
4/0 AWG (614/24) 70,0mm²				
1864104	4	1.874" / 51.0mm	3398	5669

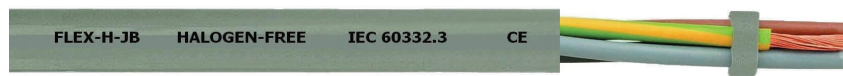
* Additional sizes may be available.

** Sizes available as FLEX-CH-RD-OZ (187) - no ground wire construction

FLEX-H-JB Halogen-Free



FLEX-H-JB is a low smoke, zero halogen, flexible, oil-resistant, multi-conductor power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. The "JB" construction offers the new European VDE-0293-308 color code and a higher voltage rating. For use in flexible or stationary applications under medium mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections to machinery, data processing, production lines, conveyor belts, ventilation and air-conditioning systems. Found in public facilities, airports, railway stations, plant construction, steel mills, offices and in areas exposed to high risk of flame or fires. The flame retardant, halogen-free jacket gives off no corrosive gases and low smoke when exposed to fire, making **FLEX-H-JB** suitable in areas of high risk or potential for fire. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Special Halogen-Free core insulation
- Color code VDE-0293-308
- Ground wire in outer layer
- Halogen-Free outer jacket - gray (RAL 7001)
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 450/750 volts**
- Test voltage: 3000 volts
- Flexing bending radius: 12.5 x Ø
- Static bending radius: 5 x Ø
- Flexing temp: -15° C to +70° C
- Static temp: -40° C to +70° C
- Flame retardant: **IEC 60332.3**
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0250, 0281, 0282
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

** Working voltage is 600/1kV for fixed or protected installations.

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
16 AWG (30/30) 1,50mm²				
1821603	3	0.319" / 8.1mm	29	94
1821604	4	0.350" / 8.9mm	39	107
1821605	5	0.394" / 10.0mm	48	129
14 AWG (50/30) 2,50mm²				
1821403	3	0.394" / 10.0mm	48	133
1821404	4	0.429" / 10.9mm	64	161
1821405	5	0.472" / 12.0mm	80	188
12 AWG (56/28) 4,00mm²				
1821203	3	0.453" / 11.5mm	77	168
1821204	4	0.492" / 12.5mm	103	211
1821205	5	0.551" / 14.0mm	129	266
10 AWG (84/28) 6,00mm²				
1821004	4	0.535" / 13.6mm	154	288
1821005	5	0.602" / 15.3mm	193	351
8 AWG (80/26) 10,0mm²				
1820804	4	0.685" / 17.4mm	258	539
1820805	5	0.764" / 19.4mm	322	632
6 AWG (128/26) 16,0mm²				
1820604	4	0.795" / 20.2mm	412	798
1820605	5	0.886" / 22.5mm	515	919
4 AWG (200/26) 25,0mm²				
1820404	4	0.988" / 25.1mm	644	1320
1820405	5	1.106" / 28.1mm	805	1686
2 AWG (280/26) 35,0mm²				
1820204	4	1.126" / 28.6mm	901	1704
1820205	5	1.264" / 32.1mm	1127	2187
1 AWG (400/26) 50,0mm²				
1820104	4	1.343" / 34.1mm	1288	2460
2/0 AWG (356/24) 70,0mm²				
1821104	4	1.543" / 39.2mm	1803	3405
3/0 AWG (485/24) 95,0mm²				
1823104	4	1.760" / 44.7mm	2447	4566
4/0 AWG (614/24) 120,0mm²				
1824104	4	1.980" / 50.3mm	3091	5776

* Additional sizes may be available.

FLEX-CH-JB Halogen-Free



FLEX-CH-JB is a low smoke, zero halogen, flexible, oil-resistant, overall shielded, multi-conductor power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. The “JB” construction offers the new European VDE-0293-308 color code and a higher voltage rating. For use in flexible or stationary applications under medium mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections to machinery, data processing, production lines, conveyor belts, ventilation and air-conditioning systems. Found in public facilities, airports, railway stations, plant construction, steel mills, offices and in areas exposed to high risk of flame or fires. The flame retardant, halogen-free jacket gives off no corrosive gases and low smoke when exposed to fire, making **FLEX-CH-JB** suitable in areas of high risk or potential for fire. The tinned copper braid shield offers added protection against electrical and electromagnetic interference (EMI). Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Special Halogen-Free core insulation
- Color code VDE-0293-308
- Separating layer
- 85% Tinned Copper Braid
- Halogen-Free outer jacket - gray (RAL 7001)
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 450/750 volts**
- Test voltage: 3000 volts
- Flexing bending radius: 12.5 x Ø
- Static bending radius: 5 x Ø
- Flexing temp: -15° C to +70° C
- Static temp: -40° C to +70° C
- Flame retardant: **IEC 60332.3**
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0250, 0281, 0282
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

** Working voltage is 600/1kV for fixed or protected installations.

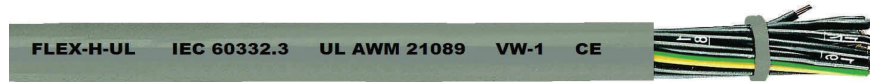
PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
16 AWG (30/30) 1,50mm²				
1831603	3	0.331" / 8.4mm	51	84
1831604	4	0.366" / 9.3mm	64	107
1831605	5	0.421" / 10.7mm	75	129
14 AWG (50/30) 2,50mm²				
1831403	3	0.425" / 10.8mm	100	133
1831404	4	0.449" / 11.4mm	117	161
1831405	5	0.492" / 12.5mm	135	188
12 AWG (56/28) 4,00mm²				
1831203	3	0.469" / 11.9mm	119	168
1831204	4	0.512" / 13.0mm	148	211
1831205	5	0.575" / 14.6mm	220	266
10 AWG (84/28) 6,00mm²				
1831004	4	0.555" / 14.1mm	205	288
1831005	5	0.622" / 15.8mm	296	351
8 AWG (80/26) 10,0mm²				
1830804	4	0.705" / 17.9mm	326	539
1830805	5	0.783" / 19.9mm	410	632
6 AWG (128/26) 16,0mm²				
1830604	4	0.827" / 21.0mm	543	798
1830605	5	0.909" / 23.1mm	705	919
4 AWG (200/26) 25,0mm²				
1830404	4	1.051" / 26.7mm	859	1320
1830405	5	1.169" / 29.7mm	966	1686
2 AWG (280/26) 35,0mm²				
1830204	4	1.205" / 30.6mm	1134	1704
1830205	5	1.339" / 34.0mm	1295	2187
1 AWG (400/26) 50,0mm²				
1830104	4	1.378" / 35.0mm	1553	2460
2/0 AWG (356/24) 70,0mm²				
1832104	4	1.634" / 41.5mm	2026	3405
3/0 AWG (485/24) 95,0mm²				
1833104	4	1.843" / 46.8mm	2692	4566
4/0 AWG (614/24) 120,0mm²				
1834104	4	2.043" / 51.9mm	3399	5776

* Additional sizes may be available.

FLEX-H-UL UL/CE/VW-1



FLEX-H-UL is a low smoke, zero halogen, cost effective, flexible, multi-conductor power and control cable designed for use in all electrical equipment in dry and damp conditions. Especially designed for the North American market by carrying UL AWM style 21089 & 10701 and rated UL 1581 VW-1. For use in flexible or stationary applications under medium mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections to machinery, data processing, production lines, conveyor belts, ventilation and air-conditioning systems. Found in public facilities, airports, railway stations, plant construction, steel mills, offices and in areas exposed to high risk of flame or fires. The flame retardant, halogen-free jacket gives off no corrosive gases and low smoke when exposed to fire, making **FLEX-H-UL** suitable in areas of high risk or potential for fire. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Halogen-Free core insulation
- Color code VDE-0293 - black & numbered
- Ground wire in outer layer
- Halogen-free outer jacket - gray (RAL 7001)
- "OZ" denotes no ground wire
- **Low oil & chemical resistant**

Technical:

- Working voltage: 300/500 (600V UL)
- Test voltage: 3000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 4 x Ø
- Flexing temp: -15° C to +70° C
- Static temp: -40° C to +70° C
- Flame retardant: **IEC 60332.3, VW-1**
- Insulation resistance: 20 MΩ x km

Approvals:

- UL AWM 10701
- UL AWM 21089
- UL 1581 VW-1
- VDE-0281 Part 14
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
21 AWG (16/32) 0,50mm2				
1882102 OZ	2	0.189" / 4.8mm	7	24
1882103	3	0.201" / 5.1mm	9	28
1882104	4	0.224" / 5.7mm	13	37
1882105	5	0.244" / 6.2mm	16	44
1882107	7	0.267" / 6.8mm	22	54
1882108	8	0.314" / 8.0mm	25	69
1882110	10	0.338" / 8.6mm	32	75
1882112	12	0.350" / 8.9mm	39	86
1882118	18	0.421" / 10.7mm	58	127
1882125	25	0.503" / 12.8mm	80	174
1882130	30	0.519" / 13.2mm	109	197
19 AWG (24/32) 0,75mm2				
1881902 OZ	2	0.212" / 5.4mm	9	32
1881903	3	0.224" / 5.7mm	15	38
1881904	4	0.244" / 6.2mm	19	46
1881905	5	0.268" / 6.8mm	24	56
1881907	7	0.291" / 7.4mm	34	70
1881910	10	0.377" / 9.6mm	48	100
1881912	12	0.390" / 9.9mm	58	115
1881916	16	0.465" / 11.8mm	77	169
1881925	25	0.567" / 14.4mm	121	236
1881934	34	0.646" / 16.4mm	164	313
18 AWG (32/32) 1,00mm2				
1881802 OZ	2	0.224" / 5.7mm	13	37
1881803	3	0.236" / 6.0mm	19	45
1881804	4	0.260" / 6.6mm	25	56
1881805	5	0.283" / 7.2mm	32	67
1881807	7	0.315" / 8.0mm	45	87
1881808	8	0.370" / 9.4mm	52	110
1881810	10	0.409" / 10.4mm	64	123
1881812	12	0.417" / 10.6mm	77	142
1881816	16	0.469" / 11.9mm	116	184
1881818	18	0.500" / 12.7mm	116	211
1881825	25	0.598" / 15.2mm	161	288
1881834	34	0.685" / 17.4mm	219	382

Sizes continued on next page.

FLEX-H-UL UL/CE/VW-1



FLEX-H-UL Sizes Continued. (16 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
16 AWG (30/30) 1,50mm²				
1881602 OZ	2	0.248" / 6.3mm	19	48
1881603	3	0.264" / 6.7mm	29	59
1881604	4	0.287" / 7.3mm	39	74
1881605	5	0.319" / 8.1mm	48	91
1881607	7	0.350" / 8.9mm	68	117
1881608	8	0.421" / 10.7mm	77	150
1881610	10	0.457" / 11.6mm	97	168
1881612	12	0.472" / 12.0mm	116	194
1881618	18	0.528" / 13.4mm	174	290
1881625	25	0.685" / 17.4mm	241	400
1881634	34	0.772" / 19.6mm	329	527
14 AWG (50/30) 2,50mm²				
1881402 OZ	2	0.299" / 7.6mm	32	74
1881403	3	0.319" / 8.1mm	48	92
1881404	4	0.350" / 8.9mm	64	117
1881405	5	0.494" / 10.0mm	80	146
1881407	7	0.437" / 11.1mm	113	190
1881412	12	0.587" / 14.9mm	193	313
1881418	18	0.701" / 17.8mm	290	467
1881425	25	0.839" / 21.3mm	402	650
12 AWG (56/28) 4,00mm²				
1881203	3	0.390" / 9.9mm	77	143
1881204	4	0.425" / 10.8mm	103	179
1881205	5	0.476" / 12.1mm	129	222
1881207	7	0.528" / 13.4mm	180	290
10 AWG (84/28) 6,00mm²				
1881003	3	0.461" / 11.7mm	116	203
1881004	4	0.512" / 13.0mm	154	260
1881005	5	0.571" / 14.5mm	193	322
1881007	7	0.630" / 16.0mm	270	420
8 AWG (80/26) 10,0mm²				
1880804	4	0.638" / 16.2mm	258	403
1880805	5	0.713" / 18.1mm	322	493
6 AWG (128/26) 16,0mm²				
1880604	4	0.740" / 18.8mm	412	615
1880605	5	0.835" / 21.2mm	515	770
4 AWG (200/26) 25,0mm²				
1880404	4	0.925" / 23.5mm	644	951
1880405	5	1.118" / 28.4mm	805	784
2 AWG (280/26) 35,0mm²				
1880204	4	1.039" / 26.4mm	644	1278

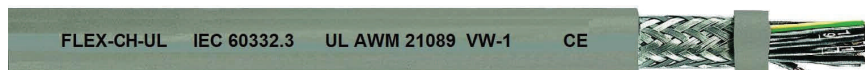
* Additional sizes may be available.

Flexible Control Cables

FLEX-CH-UL UL/CE/VW-1



FLEX-CH-UL is a low smoke, zero halogen, cost effective, flexible, overall shielded, multi-conductor power and control cable designed for use in all electrical equipment in dry and damp conditions. Especially designed for the North American market by carrying UL AWM style 21089 & 10701 and rated UL 1581 VW-1. For use in flexible or stationary applications under medium mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections to machinery, data processing, production lines, conveyor belts, ventilation and air-conditioning systems. Found in public facilities, airports, railway stations, plant construction, steel mills, offices and in areas exposed to high risk of flame or fires. The flame retardant, halogen-free jacket gives off no corrosive gases and low smoke when exposed to fire, making **FLEX-CH-UL** suitable in areas of high risk or potential for fire. The overall tinned copper braid is recommended where there is electrical interference, distorted signals or EMI emissions. The common inner jacket is replaced by a plastic foil separator giving this cable a reduced diameter, bending radius and weight. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Halogen-Free core insulation
- Color code VDE-0293 - black & numbered
- Plastic foil separator
- 85% Tinned Copper Braid
- Halogen-free outer jacket - gray (RAL 7001)
- "OZ" denotes no ground wire
- **Low oil & chemical resistant**

Technical:

- Working voltage: 300/500 (600V UL)
- Test voltage: 3000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 4 x Ø
- Flexing temp: -15° C to +70° C
- Static temp: -40° C to +70° C
- Flame retardant: **IEC 60332.3, VW-1**
- Insulation resistance: 20 MΩ x km

Approvals:

- UL AWM 10701
- UL AWM 21089
- UL 1581 VW-1
- VDE-0281 Part 14
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
21 AWG (16/32) 0,50mm2				
1892102 OZ	2	0.228" / 5.8mm	24	34
1892103	3	0.240" / 6.1mm	29	41
1892104	4	0.356" / 6.5mm	33	48
1892105	5	0.276" / 7.0mm	38	57
1892107	7	0.299" / 7.6mm	46	69
1892112	12	0.390" / 9.9mm	70	111
1892118	18	0.457" / 11.6mm	95	158
1892125	25	0.535" / 13.6mm	150	217
19 AWG (24/32) 0,75mm2				
1891902 OZ	2	0.244" / 6.2mm	29	40
1891903	3	0.256" / 6.5mm	35	52
1891904	4	0.276" / 7.0mm	41	58
1891905	5	0.303" / 7.7mm	48	71
1891907	7	0.327" / 8.3mm	60	87
1891912	12	0.429" / 10.9mm	93	142
1891918	18	0.500" / 12.7mm	142	206
1891925	25	0.591" / 15.0mm	188	277
18 AWG (32/32) 1,00mm2				
1891802 OZ	2	0.256" / 6.5mm	34	53
1891803	3	0.268" / 6.8mm	42	59
1891804	4	0.291" / 7.4mm	50	71
1891805	5	0.319" / 8.1mm	59	83
1891807	7	0.346" / 8.8mm	75	104
1891812	12	0.453" / 11.5mm	124	168
1891818	18	0.543" / 13.8mm	180	247
1891825	25	0.634" / 16.1mm	237	331
16 AWG (30/30) 1,50mm2				
1891602 OZ	2	0.280" / 7.1mm	44	61
1891603	3	0.295" / 7.5mm	55	75
1891604	4	0.323" / 8.2mm	67	95
1891605	5	0.350" / 8.9mm	80	108

Sizes continued on next page.

FLEX-CH-UL UL/CE/VW-1



FLEX-CH-UL Sizes Continued. (16 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
16 AWG (30/30) 1,50mm² Cont.				
1891607	7	0.390" / 9.9mm	103	138
1891612	12	0.512" / 13.0mm	180	238
1891618	18	0.610" / 15.5mm	250	347
1891625	25	0.713" / 18.1mm	355	473
14 AWG (50/30) 2,50mm²				
1891402	2	0.327" / 8.3mm	64	85
1891403	3	0.354" / 9.0mm	79	105
1891404	4	0.390" / 9.9mm	99	135
1891405	5	0.433" / 11.0mm	118	166
1891407	7	0.469" / 11.9mm	170	210
1891412	12	0.626" / 15.9mm	258	351
12 AWG (56/28) 4,00mm²				
1891203	3	0.421" / 10.7mm	119	155
1891204	4	0.461" / 11.7mm	166	195
1891205	5	0.508" / 12.9mm	180	242
1891207	7	0.559" / 14.2mm	249	314
10 AWG (84/28) 6,00mm²				
1891003	3	0.492" / 12.5mm	161	213
1891004	4	0.547" / 13.9mm	230	293
1891005	5	0.606" / 15.4mm	296	342
1891007	7	0.665" / 16.9mm	342	444
8 AWG (80/26) 10,0mm²				
1890804	4	0.685" / 17.4mm	359	459
1890805	5	0.768" / 19.5mm	397	553
1890807	7	0.846" / 21.5mm	550	716
6 AWG (128/26) 16,0mm²				
1890604	4	0.795" / 20.2mm	494	695
1890605	5	0.890" / 22.6mm	600	862
4 AWG (200/26) 25,0mm²				
1890404	4	0.988" / 25.1mm	757	1115
1890405	5	1.102" / 28.0mm	939	1325
2 AWG (280/26) 35,0mm²				
1890204	4	1.118" / 28.4mm	1037	1376
1890205	5	1.248" / 31.7mm	1282	1704
1 AWG (400/26) 50,0mm²				
1890104	4	1.339" / 34.0mm	1447	1937
2/0 AWG (356/24) 70,0mm²				
1892104	4	1.626" / 41.3mm	2025	3312

* Additional sizes may be available.

Flexible Control Cables

FLEX-IS-OZ Intrinsically-Safe



FLEX-IS-OZ is an intrinsically-safe, blue jacketed, flexible, oil-resistant, multi-conductor power and control cable designed for use in electrical equipment in dry, damp, wet and hazardous type -i- conditions. For use in flexible or stationary applications under medium mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections to machinery and electrical apparatus found in intrinsically-safe power circuits. These intrinsically safe circuits are circuits in which sparks and thermal effects cannot cause ignition in explosive atmospheres at normal operation or dangerous conditions. These installations are not grounded and require a separate power circuit, therefore the “OZ” color code has no ground wire. **FLEX-IS-OZ** cables are designed for appropriate use in a voltage range below 50V AC or 75V DC. Outdoor and direct burial installations are not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Special PVC core insulation
- Color code VDE-0293 - black & numbered
- No ground wire
- Special PVC outer jacket - blue (RAL 5015)
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 3000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 5 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -40° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0250, 02821, 0282
- VDE-0165 Part-1 Intrinsically Safe
- DIN EN 60079-14
- IEC 60079-14 Section 12.2.2
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
18 AWG (24/32) 0,75mm2				
1901802	2	0.205" / 5.2mm	9	31
1901803	3	0.217" / 5.5mm	15	36
1901804	4	0.244" / 6.2mm	19	44
1901805	5	0.268" / 6.8mm	24	54
1901807	7	0.319" / 8.1mm	35	74
1901808	8	0.351" / 8.9mm	39	87
1901812	12	0.390" / 9.9mm	59	120
1901818	18	0.469" / 11.9mm	87	172
1901825	25	0.571" / 14.5mm	121	245
1901830	30	0.622" / 15.8mm	144	300
1901834	34	0.646" / 16.4mm	164	342
1901841	41	0.693" / 17.6mm	200	407
17 AWG (32/32) 1,00mm2				
1901702	2	0.217" / 5.5mm	13	40
1901703	3	0.236" / 6.0mm	19	48
1901704	4	0.260" / 6.6mm	25	58
1901705	5	0.283" / 7.2mm	32	70
1901707	7	0.339" / 8.6mm	45	95
1901712	12	0.421" / 10.7mm	77	154
1901718	18	0.501" / 12.7mm	116	230
1901725	25	0.614" / 15.6mm	161	325
16 AWG (30/30) 1,50mm2				
1901602	2	0.248" / 6.3mm	19	47
1901603	3	0.264" / 6.7mm	29	60
1901604	4	0.287" / 7.3mm	39	73
1901605	5	0.323" / 8.2mm	48	88
1901607	7	0.386" / 9.8mm	68	123
1901612	12	0.476" / 12.1mm	116	207
1901618	18	0.571" / 14.5mm	174	295
1901625	25	0.701" / 17.8mm	241	416
1901630	30	0.791" / 20.1mm	295	567
14 AWG (50/30) 2,50mm2				
1901403	3	0.327" / 8.3mm	48	99
1901404	4	0.358" / 9.1mm	64	119
1901405	5	0.402" / 10.2mm	80	148

* Additional sizes may be available.

FLEX-IS-JZ Intrinsically-Safe



FLEX-IS-JZ is an intrinsically-safe, blue jacketed, flexible, oil-resistant, multi-conductor power and control cable designed for use in electrical equipment in dry, damp, wet and hazardous type -i- conditions. For use in flexible or stationary applications under medium mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections to machinery and electrical apparatus found in intrinsically-safe power circuits. These intrinsically safe circuits are circuits in which sparks and thermal effects cannot cause ignition in explosive atmospheres at normal operation or dangerous conditions. This special “JZ” color code includes a green/yellow ground for specially grounded power circuits. **FLEX-IS-JZ** cables are designed for appropriate use in a voltage range below 50V AC or 75V DC. Outdoor and direct burial uses are not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Special PVC core insulation
- Color code VDE-0293 - black & numbered
- Ground wire present
- Special PVC outer jacket - blue (RAL 5015)
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 3000 volts
- Flexing bending radius: 15.0 x Ø
- Static bending radius: 5 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -40° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0250, 0281, 0282
- VDE-0165 Part-1 Intrinsically Safe
- DIN EN 60079-14
- IEC 60079-14 Section 12.2.2
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
18 AWG (24/32) 0,75mm²				
1931803	3	0.217" / 5.5mm	15	36
1931804	4	0.244" / 6.2mm	19	44
1931805	5	0.268" / 6.8mm	24	54
1931807	7	0.319" / 8.1mm	35	74
1931812	12	0.390" / 9.9mm	59	120
1931818	18	0.469" / 11.9mm	87	172
1931825	25	0.571" / 14.5mm	121	245
17 AWG (32/32) 1,00mm²				
1931703	3	0.236" / 6.0mm	19	48
1931704	4	0.260" / 6.6mm	25	58
1931705	5	0.283" / 7.2mm	32	70
1931707	7	0.339" / 8.6mm	45	95
1931712	12	0.421" / 10.7mm	77	154
1931718	18	0.501" / 12.7mm	116	230
1931725	25	0.614" / 15.6mm	161	325
16 AWG (30/30) 1,50mm²				
1931603	3	0.264" / 6.7mm	29	60
1931604	4	0.287" / 7.3mm	39	73
1931605	5	0.323" / 8.2mm	48	88
1931607	7	0.386" / 9.8mm	68	123
1931612	12	0.476" / 12.1mm	116	207
1931618	18	0.571" / 14.5mm	174	295
1931625	25	0.701" / 17.8mm	241	416

* Additional sizes may be available.

Flexible Control Cables

FLEX-IS-CY Intrinsically-Safe



FLEX-IS-CY is an intrinsically-safe, blue jacketed, flexible, oil-resistant, overall shielded, multi-conductor power and control cable designed for use in electrical equipment in dry, damp, wet and hazardous type -i- conditions. For use in flexible or stationary applications under medium mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections to machinery and electrical apparatus found in intrinsically-safe power circuits. These intrinsically safe circuits are circuits in which sparks and thermal effects cannot cause ignition in explosive atmospheres at normal operation or dangerous conditions. These connections do not use a grounding or earth core and require a separate power circuit. The tinned copper braid shield ensures interference-free data transmissions and added protection against electromagnetic interference. **FLEX-IS-CY** cables are designed for appropriate use in a voltage range below 50V AC or 75V DC. Outdoor and direct burial installations are not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Special PVC core insulation
- Color code VDE-0293 - black & numbered
- Plastic foil wrap
- 85% Tinned Copper Braid
- Special PVC outer jacket - blue (RAL 5015)
- No ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 3000 volts
- Flexing bending radius: 20.0 x Ø
- Static bending radius: 6 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -40° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0250, 0281, 0282
- VDE-0165 Part-1 Intrinsically Safe
- DIN EN 60079-14
- IEC 60079-14 Section 12.2.2
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
18 AWG (24/32) 0,75mm2				
1911802	2	0.240" / 6.1mm	26	40
1911803	3	0.252" / 6.4mm	33	44
1911804	4	0.272" / 6.9mm	38	52
1911805	5	0.291" / 7.4mm	47	62
1911807	7	0.339" / 8.6mm	64	87
1911808	8	0.370" / 9.4mm	74	98
1911810	10	0.394" / 10.0mm	94	120
1911812	12	0.409" / 10.4mm	101	135
1911818	18	0.488" / 12.4mm	139	196
1911820	20	0.512" / 13.0mm	160	242
1911825	25	0.594" / 15.1mm	186	278
1911830	30	0.614" / 15.6mm	211	326
1911834	34	0.665" / 16.9mm	235	351
1911841	41	0.720" / 18.3mm	266	456
17 AWG (32/32) 1,00mm2				
1911702	2	0.252" / 6.4mm	31	44
1911703	3	0.264" / 6.7mm	38	54
1911704	4	0.287" / 7.3mm	46	66
1911705	5	0.307" / 7.8mm	60	85
1911707	7	0.358" / 9.1mm	74	106
1911712	12	0.441" / 11.2mm	113	174
1911718	18	0.520" / 13.2mm	164	255
1911725	25	0.638" / 16.2mm	223	358
1911734	34	0.709" / 18.0mm	295	497
16 AWG (30/30) 1,50mm2				
1911602	2	0.268" / 6.8mm	42	59
1911603	3	0.287" / 7.3mm	51	68
1911604	4	0.319" / 8.1mm	66	85
1911605	5	0.350" / 8.9mm	78	107
1911607	7	0.413" / 10.5mm	102	140
1911612	12	0.504" / 12.8mm	149	227
1911618	18	0.598" / 15.2mm	247	321
1911625	25	0.728" / 18.5mm	335	473
1911630	30	0.748" / 19.0mm	372	557
1911634	34	0.819" / 20.8mm	433	605

* Additional sizes may be available.

FLEX-IS-CY-TP Intrinsically-Safe



FLEX-IS-CY-TP is an intrinsically-safe, blue jacketed, flexible, oil-resistant, overall shielded, multi-paired power and control cable designed for use in electrical equipment in dry, damp, wet and hazardous type -i- conditions. For use in flexible or stationary applications under medium mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections to machinery and electrical apparatus found in intrinsically-safe power circuits. These intrinsically safe circuits are circuits in which sparks and thermal effects cannot cause ignition in explosive atmospheres at normal operation or dangerous conditions. These connections do not use a grounding or earth core and require a separate power circuit. The twisted pair reduces crosstalk interference within the cable while the tinned copper braid shield provides interference-free data transmissions and added protection against electromagnetic interference. **FLEX-IS-CY-TP** cables are designed for appropriate use in a voltage range below 50V AC or 75V DC. Outdoor and direct burial installations are not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special PVC core insulation in twisted pairs
- Color code DIN-47100 without color repetition
- Plastic foil wrap
- 85% Tinned Copper Braid
- Special PVC outer jacket - blue (RAL 5015)
- No ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 3000 volts
- Flexing bending radius: 15.0 x Ø
- Static bending radius: 6 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -40° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0250, 0281, 0282
- VDE-0165 Part-1 Intrinsically Safe
- DIN EN 60079-14
- IEC 60079-14 Section 12.2.2
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	PAIRS	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm²				
1922002	2	0.315" / 8.0mm	31	60
1922003	3	0.331" / 8.4mm	42	71
1922004	4	0.358" / 9.1mm	54	85
1922006	6	0.421" / 10.7mm	74	115
1922008	8	0.512" / 13.0mm	92	168
1922010	10	0.559" / 14.2mm	109	189
1922012	12	0.567" / 14.4mm	124	202
1922016	16	0.697" / 17.7mm	161	298
1922020	20	0.756" / 19.2mm	195	352
1922024	24	0.815" / 20.7mm	232	396
1922025	25	0.823" / 20.9mm	240	417
18 AWG (24/32) 0,75mm²				
1921802	2	0.343" / 8.7mm	40	70
1921803	3	0.362" / 9.2mm	58	86
1921804	4	0.394" / 10.0mm	72	105
1921806	6	0.437" / 11.1mm	98	145
1921808	8	0.575" / 14.6mm	121	207
1921810	10	0.630" / 16.0mm	148	238
1921812	12	0.646" / 16.4mm	179	272
1921816	16	0.787" / 20.0mm	221	376
1921820	20	0.850" / 21.6mm	285	450
1921824	24	0.957" / 24.3mm	327	533
1921825	25	0.961" / 24.4mm	355	539

* Additional sizes may be available.