

EXTRAFLEX-CY Shielded



EXTRAFLEX-CY is a PVC, high flex, heavy-duty, oil-resistant, overall shielded, continuous flex multi-conductor cable designed for use in the machine tool industry, robotics, machine production and drag chains where high flexibility is essential. Suitable for use in flexible and stationary applications under medium mechanical stress with free movements in dry, damp and wet areas. Applications include gantry robots, cable tracks, power chains, connection cables, pick and place units, automated handling equipment, conveyor systems and applications that require a small bending radius. The tinned copper braid shield assures disturbance-free transmissions of all signals and impulses and better protection against EMI. Designed and qualified for a service life of at least 5 million alternating bending cycles in power chains. Outdoor installation is not permitted.



Construction:

- Extra fine bare copper strands
- Strands to VDE-0295 Class-6, IEC 60228 Cl-6
- Special PVC core insulation
- Color code VDE-0293 - black & numbered
- Ground wire in outer layer
- Fleece wrap over cores
- 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 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: -40° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0281
- 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 (28/34) 0,50mm2				
2012002 OZ	2	0.272" / 6.9mm	20	60
2012003	3	0.283" / 7.2mm	25	77
2012004	4	0.307" / 7.8mm	32	94
2012005	5	0.327" / 8.3mm	43	113
2012007	7	0.378" / 9.6mm	47	146
2012012	12	0.445" / 11.3mm	64	184
2012014	14	0.468" / 11.9mm	68	223
2012016	16	0.499" / 12.7mm	85	260
2012018	18	0.531" / 13.5mm	95	298
2012021	21	0.570" / 14.5mm	111	333
2012025	25	0.622" / 15.8mm	131	343
2012034	34	0.646" / 16.4mm	179	365
2012041	41	0.732" / 18.6mm	221	406
2012050	50	0.819" / 20.8mm	264	497
18 AWG (42/34) 0,75mm2				
2011802 OZ	2	0.287" / 7.3mm	33	70
2011803	3	0.307" / 7.8mm	39	86
2011804	4	0.327" / 8.3mm	50	123
2011805	5	0.358" / 9.1mm	54	134
2011807	7	0.402" / 10.2mm	57	180
2011810	10	0.484" / 12.3mm	64	219
2011812	12	0.496" / 12.6mm	94	245
2011814	14	0.516" / 13.1mm	109	286
2011816	16	0.547" / 13.9mm	125	327
2011818	18	0.571" / 14.5mm	142	367
2011821	21	0.626" / 15.9mm	182	396
2011825	25	0.681" / 17.3mm	216	402
2011830	30	0.701" / 17.8mm	278	436
2011834	34	0.764" / 19.4mm	311	459
2011841	41	0.807" / 20.5mm	391	537
2011850	50	0.894" / 22.7mm	466	640
17 AWG (56/34) 1,00mm2				
2011702 OZ	2	0.307" / 7.8mm	38	77
2011703	3	0.319" / 8.1mm	44	95

Sizes continued on next page.

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EXTRAFLEX-CY Sizes Continued. (17 AWG & Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
17 AWG (56/34) 1,00mm² Cont.				
2011704	4	0.343" / 8.7mm	54	131
2011705	5	0.374" / 9.5mm	76	182
2011707	7	0.429" / 10.9mm	87	206
2011712	12	0.516" / 13.1mm	158	318
2011716	16	0.582" / 14.8mm	184	387
2011718	18	0.606" / 15.4mm	207	417
2011725	25	0.732" / 18.6mm	280	555
2011734	34	0.811" / 20.6mm	348	704
2011741	41	0.870" / 22.1mm	426	843
2011750	50	0.988" / 25.1mm	493	963
2011765	65	1.149" / 29.2mm	625	1222
16 AWG (84/34) 1,50mm²				
2011602 OZ	2	0.327" / 8.3mm	50	114
2011603	3	0.343" / 8.7mm	60	136
2011604	4	0.374" / 9.5mm	75	163
2011605	5	0.402" / 10.2mm	89	193
2011607	7	0.480" / 12.2mm	146	270
2011612	12	0.571" / 14.5mm	207	397
2011616	16	0.634" / 16.1mm	231	491
2011618	18	0.665" / 16.9mm	323	566
2011625	25	0.811" / 20.6mm	392	775
2011634	34	0.953" / 24.2mm	469	808
2011641	41	1.001" / 25.4mm	582	823
2011650	50	1.102" / 28.0mm	651	969
2011661	61	1.205" / 30.6mm	690	1156
14 AWG (140/34) 2,50mm²				
2011403	3	0.413" / 10.5mm	94	144
2011404	4	0.441" / 11.2mm	113	177
2011405	5	0.504" / 12.8mm	130	231
2011407	7	0.583" / 14.8mm	157	275
2011412	12	0.709" / 18.0mm	244	484
12 AWG (224/34) 4,0mm²				
2011203	3	0.500" / 12.7mm	119	196
2011204	4	0.547" / 13.9mm	149	251
2011205	5	0.602" / 15.3mm	220	300
10 AWG (192/32) 6,0mm²				
2011004	4	0.618" / 15.7mm	205	353
2011005	5	0.673" / 17.1mm	296	424
8 AWG (320/32) 10,0mm²				
2010804	4	0.819" / 20.8mm	325	562
2010805	5	0.898" / 22.8mm	409	669
6 AWG (512/32) 16,0mm²				
2010604	4	0.902" / 22.9mm	563	822
2010605	5	1.051" / 26.7mm	704	1046

* Additional sizes may be available.