EXTRAFLEX-CH

EXTRAFLEX-CH is a halogen-free, high flex, light-weight, 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 and damp areas. Applications include cable tracks, power chains, connection cables, pick and place units, automated handling equipment, assembly lines, 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. The halogen-free thermoplastic polyolefin copolymer inner and outer jacket construction offers optimal small external diameters and small bending radii. 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 halogen-free* polyolefin core insulation
- Color code VDE-0293 - black & numbered
- Ground wire in outer layer
- Fleece wrap over cores
- Gray polyolefin copolymer inner jacket
- 85% Tinned Copper Braid
- Halogen-free* outer jacket - gray (RAL 7001)
- "OZ" denotes no ground wire
- *Thermoplastic polyolefin copolymer

Technical:

- Working voltage: 300/500 volts
- Test voltage: 4000 volts
- Flexing bending radius: 10 x Ø
- Static bending radius: 5 x Ø
- Flexing temp: -25º C to +70º C
- Static temp: -40º C to +80º C
- Flame retardant: IEC 60332.1
- 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
18 AWG (42/34) 0,75mm2				
2811802 OZ	2	0.287" / 7.3mm	26	53
2811803	3	0.307" / 7.8mm	32	62
2811804	4	0.331" / 8.4mm	40	72
2811805	5	0.354" / 9.0mm	46	83
2811807	7	0.421" / 10.7mm	60	111
2811812	12	0.488" / 12.4mm	87	158
2811818	18	0.587" / 14.9mm	138	231
2811825	25	0.709" / 18.0mm	182	307
17 AWG (56/34) 1,00mm2				
2811702 OZ	2	0.303" / 7.7mm	31	60
2811703	3	0.323" / 8.2mm	38	71
2811704	4	0.350" / 8.9mm	47	84
2811705	5	0.386" / 9.8mm	54	100
2811707	7	0.449" / 11.4mm	74	130
2811712	12	0.528" / 13.4mm	122	197
2811718	18	0.634" / 16.1mm	170	279
2811725	25	0.768" / 19.5mm	245	381
2811741	41	0.913" / 23.2mm	364	580
2811750	50	0.996" / 25.3mm	429	710
16 AWG (84/34) 1,50mm2				
2811602 OZ	2	0.331" / 8.4mm	39	73
2811603	3	0.354" / 9.0mm	50	87
2811604	4	0.390" / 9.9mm	61	106
2811605	5	0.429" / 10.9mm	75	126
2811607	7	0.500" / 12.7mm	97	165
2811612	12	0.594" / 15.1mm	166	256
2811618	18	0.701" / 17.8mm	233	354
2811625	25	0.862" / 21.9mm	334	494
2811634	34	.0965" / 24.5mm	470	637
2811641	41	1.024" / 26.0mm	553	768
2811650	50	1.110" / 28.2mm	644	914

Sizes continued on next page.

EXTRAFLEX-CH

EXTRAFLEX-CH Sizes Continued. (14 AWG & Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
14 AWG (140/34) 2,50mm2				
2811403	3	0.425” / 10.8mm	80	129
2811404	4	0.465” / 11.8mm	108	155
2811405	5	0.520” / 13.2mm	138	194
2811407	7	0.622” / 15.8mm	176	264
12 AWG (224/34) 4,0mm2				
2811204	4	0.539” / 13.7mm	160	228
10 AWG (192/32) 6,0mm2				
2811004	4	0.634” / 16.1mm	213	326
2811005	5	0.697” / 17.7mm	275	390

* Additional sizes may be available.