

MULTIFLEX-P



MULTIFLEX-P is a polyurethane, high flex, heavy-duty, oil-resistant, halogen-free, 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 permanent flexing and stationary applications under high mechanical stress with free movements in dry, damp and wet areas. These halogen-free cables offer optimum service life and expanded temperature ranges found in moveable machinery, robotics, automated machine parts, cable tracks and multi-shift operations. Best for applications that require extreme bending stress and smallest bending radius possible with long travel distances. The rugged PUR jacket adds high abrasion, tear resistance and adhesion-free qualities along with good chemical resistance to coolants and mineral oils. Outdoor installation is permitted due to the weather, ozone and UV-resistant outer jacket.



Construction:

- Extra fine bare copper strands
- Strands to VDE-0295 Class-6, IEC 60228 Cl-6
- Special TPE core insulation
- Color code VDE-0293 - black & numbered
- Ground wire in outer layer
- Fleece wrap over each layer of cores
- Full-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: 5 x Ø
- Static bending radius: 3 x Ø
- Flexing temp: -40° C to +70° C
- Static temp: -50° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 100 MΩ x km

Approvals:

- VDE-0245, 0281, 0282 Part 1 & 10.
- 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				
2402002 OZ	2	0.217" / 5.5mm	7	25
2402003	3	0.228" / 5.8mm	9	31
2402004	4	0.252" / 6.4mm	13	40
2402005	5	0.276" / 7.0mm	16	46
2402006	6	0.295" / 7.5mm	19	53
2402007	7	0.319" / 8.1mm	23	59
2402012	12	0.390" / 9.9mm	39	88
2402018	18	0.453" / 11.5mm	58	132
2402020	20	0.476" / 12.1mm	64	174
2402025	25	0.535" / 13.6mm	80	189
2402030	30	0.563" / 14.3mm	97	211
2402036	36	0.606" / 15.4mm	115	251
18 AWG (42/34) 0,75mm2				
2401802 OZ	2	0.244" / 6.2mm	9	32
2401803	3	0.256" / 6.5mm	15	39
2401804	4	0.280" / 7.1mm	19	46
2401805	5	0.307" / 7.8mm	24	57
2401807	7	0.354" / 9.0mm	34	79
2401812	12	0.437" / 11.1mm	58	123
2401818	18	0.508" / 12.9mm	87	181
2401820	20	0.547" / 13.5mm	97	195
2401825	25	0.606" / 15.4mm	121	251
2401830	30	0.634" / 16.1mm	145	282
2401836	36	0.685" / 17.4mm	174	334
17 AWG (56/34) 1,00mm2				
2401702 OZ	2	0.272" / 6.9mm	13	37
2401703	3	0.291" / 7.4mm	19	47
2401704	4	0.315" / 8.0mm	25	58
2401705	5	0.343" / 8.7mm	32	68
2401707	7	0.402" / 10.2mm	45	96
2401712	12	0.496" / 12.6mm	77	151
2401718	18	0.583" / 14.8mm	116	224
2401720	20	0.622" / 15.8mm	129	248
2401725	25	0.701" / 17.8mm	161	309
2401730	30	0.728" / 18.5mm	193	355

Sizes continued on next page.

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MULTIFLEX-P Sizes Continued. (17 AWG & Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
17 AWG (56/34) 1,00mm2 Cont.				
2401736	36	0.791" / 20.1mm	232	419
2401741	41	0.835" / 21.2mm	275	523
2401750	50	0.945" / 24.0mm	334	639
2401765	65	1.071" / 27.2mm	435	808
16 AWG (84/34) 1,50mm2				
2401602 OZ	2	0.299" / 7.6mm	19	47
2401603	3	0.319" / 8.1mm	29	60
2401604	4	0.343" / 8.7mm	39	71
2401605	5	0.382" / 9.7mm	48	97
2401607	7	0.445" / 11.3mm	68	138
2401612	12	0.543" / 13.8mm	116	215
2401618	18	0.642" / 16.3mm	174	312
2401620	20	0.681" / 17.3mm	193	342
2401625	25	0.776" / 19.7mm	241	436
2401630	30	0.799" / 20.3mm	290	503
2401636	36	0.874" / 22.2mm	347	590
2401641	41	0.941" / 23.9mm	421	811
2401650	50	1.031" / 26.2mm	502	972
2401661	61	1.138" / 28.9mm	612	1148
14 AWG (140/34) 2,50mm2				
2401402 OZ	2	0.362" / 9.2mm	32	77
2401403	3	0.382" / 9.7mm	48	109
2401404	4	0.413" / 10.5mm	64	131
2401405	5	0.457" / 11.6mm	80	154
2401407	7	0.543" / 13.8mm	113	209
2401412	12	0.665" / 16.9mm	193	357
2401418	18	0.787" / 20.0mm	290	511
2401420	20	0.835" / 21.2mm	322	575
2401425	25	0.957" / 24.3mm	402	669
12 AWG (224/34) 4,0mm2				
2401204	4	0.516" / 13.1mm	103	190
2401205	5	0.559" / 14.2mm	129	234
2401207	7	0.673" / 17.1mm	180	334
10 AWG (192/32) 6,0mm2				
2401004	4	0.563" / 14.3mm	154	290
2401005	5	0.622" / 15.8mm	193	355
2401007	7	0.756" / 19.2mm	270	525
8 AWG (320/32) 10,0mm2				
2400804	4	0.724" / 18.4mm	258	459
2400805	5	0.815" / 20.7mm	322	548
2400807	7	0.972" / 24.7mm	451	686
6 AWG (512/32) 16,0mm2				
2400604	4	0.839" / 21.3mm	412	699
2400605	5	0.937" / 23.8mm	515	867
2400607	7	1.126" / 28.6mm	721	1146

* Additional sizes may be available.