

## ULTRAFLEX-R UL/CSA/CE



**ULTRAFLEX-R** is a PVC, ultra-flexible, heavy-duty, oil-resistant, continuous flex multi-conductor power chain cable. Designed for medium mechanical stress and free movements in dry, damp and wet areas. These special cables provide increased flex life and resistance to oil, synthetic oils and water based coolants. Best for permanent flexing in drag chain applications found in the auto industry. Commonly found in gantry robots, cable tracks, pick & place units, conveyor systems, machine tools, automated handling equipment, body presses and transfer lines. The UL/CSA/CE approvals make this cable ideal for import and export to and from North American and European markets. Designed for over 5 million flex cycles in power chains when traveling under 10 meters (30 feet). The black UV-resistant jacket allows for outdoor installations within the noted temperature ranges.



### Construction:

- Super fine bare copper strands
- Strands to VDE-0295 Class-6, IEC 60228 Cl-6
- Special PVC core insulation
- Special color code VDE-0293 - red & numbered
- Ground wire in outer layer
- Textile tape wrap over cores
- PVC outer jacket - black (RAL 9005)
- **Extremely oil & chemical resistant**

### Technical:

- Working voltage: 300/500 (600v UL)
- Test voltage: 4000 volts
- Flexing bending radius: 7.5 x Ø
- Static bending radius: 4 x Ø
- Flexing temp: -5° C to +90° C
- Static temp: -40° C to +90° C
- Flame retardant: IEC 60332.1, FT-1
- Insulation resistance: 20 MΩ x km

### Approvals:

- UL-AWM Style 2587
- UL 10012 (core insulation)
- CSA AWM I/II A/B FT1
- VDE-0245, 0250, 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
<b>20 AWG (74/38) 0,50mm<sup>2</sup></b>				
2502003	3	0.236" / 6.0mm	9	39
2502004	4	0.256" / 6.5mm	13	46
2502005	5	0.280" / 7.1mm	16	56
2502007	7	0.323" / 8.2mm	23	83
2502009	9	0.394" / 10.0mm	29	118
2502012	12	0.413" / 10.5mm	39	129
2502018	18	0.492" / 12.5mm	58	172
2502025	25	0.591" / 15.0mm	80	240
2502034	34	0.677" / 17.2mm	109	327
<b>18 AWG (114/38) 1,00mm<sup>2</sup></b>				
2501803	3	0.260" / 6.6mm	19	59
2501804	4	0.280" / 7.1mm	25	68
2501805	5	0.307" / 7.8mm	32	85
2501807	7	0.362" / 9.2mm	45	97
2501809	9	0.429" / 10.9mm	58	132
2501812	12	0.453" / 11.5mm	77	174
2501815	15	0.520" / 13.2mm	97	201
2501818	18	0.551" / 14.0mm	116	241
2501825	25	0.677" / 17.2mm	161	429
2501834	34	0.752" / 19.1mm	219	490
<b>16 AWG (190/38) 1,50mm<sup>2</sup></b>				
2501603	3	0.291" / 7.4mm	30	63
2501604	4	0.315" / 8.0mm	39	78
2501605	5	0.346" / 8.8mm	48	94
2501607	7	0.425" / 10.8mm	68	125
2501609	9	0.499" / 12.7mm	87	164
2501612	12	0.531" / 13.5mm	116	214
2501618	18	0.630" / 16.0mm	174	303
2501625	25	0.780" / 19.8mm	241	419
2501634	34	0.882" / 22.4mm	329	563
2501650	50	1.094" / 27.8mm	441	878
2501660	60	1.189" / 30.2mm	584	1075

Sizes continued on next page.

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### ULTRAFLEX-R Sizes Continued. ( 14 AWG & Larger )

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
<b>14 AWG (320/38) 2,50mm<sup>2</sup></b>				
2501403	3	0.350" / 8.9mm	48	101
2501404	4	0.398" / 10.1mm	64	124
2501405	5	0.445" / 11.3mm	80	162
2501407	7	0.535" / 13.6mm	113	197
2501412	12	0.661" / 16.8mm	193	334
<b>12 AWG (512/38) 4,00mm<sup>2</sup></b>				
2501203	3	0.429" / 10.9mm	77	155
2501204	4	0.488" / 12.4mm	103	200
2501205	5	0.543" / 13.8mm	129	249
2501207	7	0.654" / 16.6mm	180	309
<b>10 AWG (343/34) 6,00mm<sup>2</sup></b>				
2501004	4	0.575" / 14.6mm	155	288
<b>8 AWG (301/32) 10,0mm<sup>2</sup></b>				
2500804	4	0.717" / 18.2mm	258	483
<b>6 AWG (483/32) 16,0mm<sup>2</sup></b>				
2500604	4	0.866" / 22.0mm	413	711
<b>4 AWG (768/32) 25,0mm<sup>2</sup></b>				
2500404	4	1.043" / 26.5mm	643	1066
<b>2 AWG (1026/32) 35,0mm<sup>2</sup></b>				
2500204	4	1.213" / 30.8mm	901	1412

\* Additional sizes may be available.