

# FLEX-QUATTRO-CY

PVC, UL/CSA/HAR/CE, Shielded, 300/500V



**FLEX-QUATTRO-CY** is a 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 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. 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 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
- Oil-resistant to EN 50363-4-1
- *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: -40° C to +80° C (90° UL)
- Flame retardant: IEC 60332.1, FT1
- Insulation resistance: 20 MΩ x km

**Approvals:**

- UL Style 21098, VW-1
- CSA AWM I A/B, II A/B FT1
- <HAR> HD 21.13.S1
- <VDE> 0281 Part-13
- CE Low Voltage Directive 2014/35/EU
- ROHS compliant
- *H05VVC4V5-K HAR/UL/CSA*

PART NUMBER		CORES	NOMINAL OD (in)	NOMINAL OD (mm)	CU LBS/ MFT	WT LBS/ MFT
<b>21 AWG (16/32) 0,50mm<sup>2</sup></b>						
1512102	OZ	2	0.303"	7.7mm	20	60
1512103		3	0.335"	8.5mm	29	71
1512104		4	0.354"	9.0mm	34	84
1512105		5	0.394"	10.0mm	38	101
1512107		7	0.449"	11.4mm	51	134
1512112		12	0.535"	13.6mm	83	186
1512118		18	0.622"	15.8mm	111	288
1512125		25	0.736"	18.7mm	133	343
<b>19 AWG (24/32) 0,75mm<sup>2</sup></b>						
1511902	OZ	2	0.327"	8.3mm	28	77
1511903		3	0.350"	8.9mm	46	84
1511904		4	0.386"	9.8mm	47	105
1511905		5	0.425"	10.8mm	52	121
1511907		7	0.484"	12.3mm	62	152
1511912		12	0.571"	14.5mm	107	239
1511918		18	0.642"	16.3mm	173	353
1511925		25	0.768"	19.5mm	215	464
<b>18 AWG (32/32) 1,00mm<sup>2</sup></b>						
1511802	OZ	2	0.335"	8.5mm	32	81
1511803		3	0.378"	9.6mm	51	97
1511804		4	0.406"	10.3mm	54	121
1511805		5	0.441"	11.2mm	64	136
1511807		7	0.524"	13.3mm	79	183
1511812		12	0.614"	15.6mm	131	285
1511818		18	0.709"	18.0mm	174	391
1511825		25	0.843"	21.4mm	230	522
<b>16 AWG (30/30) 1,50mm<sup>2</sup></b>						
1511602	OZ	2	0.374"	9.5mm	46	106



Sizes continued on next page

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

PART NUMBER	CORES	NOMINAL OD (in)	NOMINAL OD (mm)	CU LBS/ MFT	WT LBS/ MFT
1511603	3	0.421"	10.7mm	56	119
1511604	4	0.445"	11.3mm	63	142
1511605	5	0.480"	12.2mm	82	162
1511607	7	0.575"	14.6mm	96	205
1511612	12	0.693"	17.6mm	170	322
1511618	18	0.799"	20.3mm	213	414
1511625	25	0.961"	24.4mm	325	659
1511634	34	1.075"	27.3mm	456	832
1511641	41	1.161"	29.5mm	526	963
1511650	50	1.291"	32.8mm	613	1149
<b>14 AWG (50/30) 2,50mm<sup>2</sup></b>					
1511402	OZ 2	0.437"	11.1mm	55	144
1511403	3	0.476"	12.1mm	80	164
1511404	4	0.528"	13.4mm	107	198
1511405	5	0.571"	14.5mm	138	245
1511407	7	0.669"	17.0mm	163	347
1511412	12	0.835"	21.2mm	270	529
1511418	18	0.980"	24.9mm	376	733
1511425	25	1.161"	29.5mm	538	986
1511434	34	1.287"	32.7mm	685	1303

\*\* for sizes larger than #14 AWG (2,50mm<sup>2</sup>) see product FLEX-UL-CY (141)

