

PVC Servo cable | CF887

- For low duty flexing applications
- PVC outer jacket
- Shielded
- Flame-retardant

Dynamic Information

	Bend radius	E-Chain®	min. 15 x d
		flexible	min. 12 x d
		fixed	min. 8 x d
	Temperature	E-Chain®	+41 °F to +158 °F (+5 °C to +70 °C)
		flexible	+23 °F to +158 °F (-5 °C to +70 °C)
		fixed	+5 °F to +158 °F (-15 °C to +70 °C)
		unsupported	9.84 ft/s (3 m/s)
	v max.		
	a max.		65.6 ft/s ² (20 m/s ²)
	Travel distance	Unsupported travel distances up to 32.81 ft (10 m), Class 1	

Cable structure

	Conductors	Conductor consisting of bare copper wires (according to EN 60228).
	Conductor insulation	Mechanically high-quality, especially low-capacitance TPE mixture.
	Conductor construction	Power conductors and signal pairs cabled together with an optimized pitch length.
	Color code	Power conductors: Black with white numbers, one conductor green-yellow. 1. U / L1 / C / L+ 2. V / L2 3. W / L3 / D / L- 1 Control pair: Black with white numbers. Control Pair Printed 5 and 6 2 Control pairs: Black with white numbers. Control Pair 1: Printed 5 and 6, Control Pair 2: Printed 7 and 8
	Signal Pair shield	Aluminium/Polyester tape. 100% coverage
	Overall shield	Tinned copper braid. 60 % optical coverage
	Outer jacket	Low-adhesion mixture on the basis of PVC, adapted to suit the requirements in E-Chains®. Color: Orange (similar to RAL 2003)

Electrical Information

	Nominal voltage	1000 V
	Test voltage	4000 V (following DIN EN 50396)

Properties and approvals

	Flame resistance	According to IEC 60332-1-2, CEI 20-35, VW-1, FT-1
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Requirements	low	1	2	3	4	5	6	7	highest
Travel distance	unsupported	1	2	3	4	5	6	7	1,312 ft +
Oil resistance	none	1	2	3	4	highest			
Torsion	none	1	2	3	±180°				

Class 3.1.1.1

	Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)
	UL/CSA	Style 10492 and 2570, 1000V, 80 °C
	NFPA 79	Complies to NFPA 79-2015 chapter 12.9
	EAC	Certified according to no. TC RU C-DE.ME77.B.01561
	CTP	Certified according to no. C-DE.PB49.B.00450
	Lead-free	Following 2011/65/EC (RoHS-II)
	CE	Following 2014/35/EC

Guaranteed lifetime according to guarantee conditions (Page 22-25)

Cycles*				1 million	3 million	5 million
Temperature, from/to [°F]	v max. [ft/s] unsupported	a max. [ft/s ²]	Travel distance [ft]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
+41/ +59				17.5	18.5	19.5
+59/ +140	9.84	65.62	≤ 32.81	15	16	17
+158/ +158				17.5	18.5	19.5

* Higher number of cycles possible - please ask for your individual calculation.

Typical application areas

- For low duty flexing applications
- Without influence of oil
- Preferably indoor applications
- Especially for unsupported travel distances
- Wood/stone processing, Packaging industry, supply systems, Handling, adjusting equipment

Part No.	AWG	Number of Conductors and rated cross section [mm ²]	Outer diameter max. in.	mm	Copper index lbs/mft kg/km	Weight lbs/mft kg/km
1 Control pair shielded						
CF887-15-15-02-01	16	4 G 1.5	0.49	12.5	88.7 132	142.5 212
	16	1 STP x 1.5				
CF887-25-15-02-01	14	4 G 2.5	0.53	13.5	130.4 194	188.8 281
	16	1 STP x 1.5				
CF887-40-15-02-01	12	4 G 4.0	0.57	14.5	169.3 252	247.3 368
	16	1 STP x 1.5				
2 Control pairs shielded						
CF887-10-07-02-02	17	4 G 1.0	0.45	11.5	78.6 117	129.0 192
	18	2 STP x 0.75				
CF887-15-15-02-02	16	4 G 1.5	0.53	13.5	117.6 175	180.8 269
	16	2 STP x 1.5				
CF887-25-15-02-02	14	4 G 2.5	0.57	14.5	155.2 231	227.8 339
	16	2 STP x 1.5				

Note: The mentioned outer diameters are maximum values. **Other types available on request.**
 G = with green-yellow earth conductor x = without earth conductor
 STP = Individually shielded Twisted Pair PR = Twisted Pair
 SC = Individually shielded Conductor SHLD = Shielded Precable



Image exemplary.

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... no minimum order quantity ... *(up to 10 cuts of the same part number)

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... up to 5 million cycles guaranteed ...

