

# Servomotor Cable Assemblies for stationary applications

According to Allen-Bradley 2090 standard



## Application

- For Allen-Bradley standard
- Connecting lead especially for frequency converters and servo drives in machine and plant construction, transport and conveyor technology
- Conform with NFPA79 for machine tool wiring
- Very suitable for extreme operating conditions and high interference signals
- In dry, moist and wet environment
- Especially for industrial environments in mechanical and system engineering

## Properties

- High active and passive interference resistance (EMC)
- Easy installation
- Largely resistant to mineral and vegetable-based cutting oils
- UV-resistant
- Silicone and talcum free
- RoHS compliant

## Technical data

UL approval	cULus
Nominal voltage	600 V UL TC 600 V UL MTW 600 V UL AWM 105 °C 1000 V WTTC
Voltage $U_0/U$	0.6/1 kV
Test voltage	4000 V
Insulation resistance	min. 500 M $\Omega$ × km
Temperature range	
fixed	-40 °C to +90 °C
Minimum bending radius	
fixed	D × 6
Approvals	UL TC-ER, UL/AWM/CE, UL MTW, WTTC UL AWM Style 20328, Class 1, Div. 2 per NEC Art. 336, 392, 501 C(UL) TC, CUL FT4, UL 1277 Oil Res I and II, RoHS

## Construction

- AWG conductor
- Conductor insulation Special PVC/nylon
- Conductor marking Power wires: brown, black, blue
- Ground conductor green/yellow according to DIN EN 50334
- Control pair colour-coded black, white
- Control pair with foil taping and braided shield.
- Conductors twisted without mechanical stress, layer pitch optimised
- Braid from tinned copper wire, optical coverage  $\geq 85\%$
- Jacket special-TPE, matte, adhesion-free surface
- Jacket color orange RAL 2003

Part No.	Allen-Bradley designation	Length m	Number of strands/ cross-section	OD $\varnothing$ ca. mm
<b>Base cable SpeedTec</b>				
193966.1000	2090-CPWM7DF-16AAxx*	10.0	(4GAWG16)	10.5
193956.1000	2090-CPWM7DF-14AAxx*	10.0	(4GAWG14)	11.6
193352.1000	2090-CPWM7DF-12AAxx*	10.0	(4GAWG12)	13.1
193306.1000	2090-CPWM7DF-10AAxx*	10.0	(4GAWG10)	16.5
193353.1000	2090-CPWM7DF-08AAxx*	10.0	(4GAWG8)	21.0
193960.1000	2090-CPBM7DF-16AAxx*	10.0	(4GAWG16+(2×AWG18))	12.1
193990.1000	2090-CPBM7DF-14AAxx*	10.0	(4GAWG14+(2×AWG18))	12.8
193356.1000	2090-CPBM7DF-12AAxx*	10.0	(4GAWG12+(2×AWG18))	14.2
193962.1000	2090-CPBM7DF-10AAxx*	10.0	(4GAWG10+(2×AWG18))	18.1
193357.1000	2090-CPBM7DF-08AAxx*	10.0	(4GAWG8+(2×AWG18))	22.5
193961.1000	2090-CPBM7DF-06AAxx*	10.0	(4GAWG6+(2×AWG18))	24.6
193362.1000	2090-CPBM7DF-04AAxx*	10.0	(4GAWG4+(2×AWG18))	29.5
193369.1000	2090-CPBM7DF-02AAxx*	10.0	(4GAWG2+(2×AWG18))	34.1

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\* UL approval and technical data shown apply to the cable used in the assemblies