

# Hardened Category Cable Assemblies with Ground Wire



## Overview

PPC's Hardened Category Cable Assemblies are designed for reliable performance in harsh environments. Their integrated ground wire eliminates the need to run a separate ground wire, reducing installation time. These assemblies are offered with strain relief boots on one end or both ends. The single-ended strain relief assembly is an ideal choice when the RJ45 connector must be installed into an IP-rated protection housing. These assemblies are designed for connecting outdoor ethernet applications such as wireless access points, antennas, radios, and POE powered devices.



## Technical Data

### Cable Specifications

Shielding	Electrical Performance	Maximum Operating Voltage	Applicable Standards
Aluminum Foil-Polyester Tape	Category 6A	300 V RMS (600 V AWM Rated)	ANSI/TIA-568-C.2, ISO/IEC 11801, Ethernet/IP(tm) Specification, UL 1666 Riser CMR-CMX

### Connector Specifications

Sealing	Connector Interface	Shielding	Electrical Performance	Maximum Operating Voltage	Applicable Standards
Suitable for IP20	IEC 60603-7	Hard Brass - Nickel plated	Category 6A	300 V RMS	ANSI/TIA-568-C.2, ISO/IEC 11801, Ethernet/IP Specification

### Assembly Specifications

Electrical Performance	Maximum Operating Voltage	Temperature Range			Applicable Standards
		Storage	Installation	Operation	
Category 6A	300 V RMS (600 V AWM Rated)	-20 °C to 75 °C -4 °F to 167 °F	0 °C to 50 °C 32 °F to 122 °F	-20 °C to 75 °C -4 °F to 167 °F	ANSI/TIA/EIA-568-C.2, ISO/IEC 11801, UL 1863 and CSA-22.2 No. 233

### Jacket/Ground Wire Specifications

Material	Nominal Size	Ground Wire
UV Resistant PVC - Polyvinyl Chloride	8.3mm (0.325") x 11.6mm (0.455")	17AWG Copper Clad Steel, 2.8mm (0.111") Insulation Diameter

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## Ordering Information

Part Number	Strain Relief Boot on Both Ends	Strain Relief Boot on One End Only	Description
JCAG17XBLK005	JCAG17XOBLK005		Hardened Category Cable with Ground, Black, 1.5 m (5 ft)
JCAG17XBLK010	JCAG17XOBLK010		Hardened Category Cable with Ground, Black, 3.0 m (10 ft)
JCAG17XBLK015	JCAG17XOBLK015		Hardened Category Cable with Ground, Black, 4.6 m (15 ft)
JCAG17XBLK020	JCAG17XOBLK020		Hardened Category Cable with Ground, Black, 6.1 m (20 ft)
JCAG17XBLK025	JCAG17XOBLK025		Hardened Category Cable with Ground, Black, 7.6 m (25 ft)
JCAG17XBLK030	JCAG17XOBLK030		Hardened Category Cable with Ground, Black, 9.1 m (30 ft)
JCAG17XBLK040	JCAG17XOBLK040		Hardened Category Cable with Ground, Black, 12.2 m (40 ft)
JCAG17XBLK050	JCAG17XOBLK050		Hardened Category Cable with Ground, Black, 15.2 m (50 ft)
JCAG17XBLK060	JCAG17XOBLK060		Hardened Category Cable with Ground, Black, 18.3 m (60 ft)
JCAG17XBLK070	JCAG17XOBLK070		Hardened Category Cable with Ground, Black, 21.3 m (70 ft)
JCAG17XBLK080	JCAG17XOBLK080		Hardened Category Cable with Ground, Black, 24.4 m (80 ft)
JCAG17XBLK090	JCAG17XOBLK090		Hardened Category Cable with Ground, Black, 27.4 m (90 ft)
JCAG17XBLK100	JCAG17XOBLK100		Hardened Category Cable with Ground, Black, 30.5 m (100 ft)

\*EU Directive 2002/95/EC (RoHS) Compliance, EU RoHS Compliance Date (01/01/2006), MII Order #39 (China RoHS) Compliance