

MC-PCS HCF Duo™ PVC Jacketed Power & Control/Signal Cable for Healthcare Facilities



Copper Power & Control/Signal Conductors. THHN/THWN Power Conductors & Twisted Jacketed Pair of TFN Signal / Control Conductors. Green Insulated Grounding Conductor. Full-Sized Bare Aluminum Equipment Grounding/Bonding Conductor. Power: Solid or Stranded THHN. Signal: 16 AWG TFN. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor is part of redundant equipment bonding/grounding path. Wet Location / Direct Burial, Sunlight Resistant PVC Jacket applied over the Armor. Southwire® MC-PCS HCF Duo™ PVC Jacketed Cable meets the NEC and UL listing requirements for combining power/lighting circuits and Class 2 or Class 3 signal or control circuits in the same cable.

APPLICATIONS

MC-PCS HCF Duo™ PVC Jacketed Cable is suitable for use as follows:

- Branch-circuit wiring for patient care areas of hospitals, medical centers, and other health care facilities (when installed in accordance with NEC® Articles 517 and 330, and mechanically protected per Article 300.4). Such areas include nursing homes, dental offices, clinics, and outpatient facilities. Use in hazardous anesthetizing areas is prohibited.
- Power, lighting, control, and signal circuits requiring redundant, dedicated, or isolated grounding paths.
- LED lighting with 0-10V dimming
- Fished or embedded in plaster.
- Concealed or exposed installations.
- Wet locations per NEC 330.10(11)(C)
- Direct burial applications, installation in concrete and where exposed to cinder fills, strong chlorides, caustic alkalis, or vapors of chlorine or of hydrochloric acids.
- Places of Assembly per NEC 518.4 and theaters per NEC 520.5.
- Installation in cable tray and approved raceways.
- Under raised floors for information technology equipment conductors and cables per NEC 645.5(D) & 645.5(D)(2).
- Use with UL Listed MCI-A fittings.
- Class I Div. 2, Class II Div. 2, & Class III Div. 1 Hazardous Locations.

STANDARDS & REFERENCES

MC-PCS HCF Duo™ PVC Jacketed Cable meets or exceeds the requirements of:

- UL 83, UL 1685, and UL 1569 (Including new Sections 9.4, 40.1(q), and 41.1(r) as detailed in the latest UL 1569 CRD)
- Federal Specification A-A59544 (formerly J-C-30B)
- National Electrical Code (NFPA 70), Articles 330, 517.13, and 725.136(I)(1) & (2) as described in the latest UL 1569 CRD)
- Listed for use in UL 1, 2 and 3 Hour Through Penetration Firestop Systems
- Passes both " UL Test" & "FT4/IEEE 1202" (70,000 Btu/hr) Vertical Cable Tray Flame Test
- REACH/RoHS-2 (Chemical Limit) Compliant

CONSTRUCTION

The power conductors, insulated green ground, and signal conductor assembly are cabled together and a binder tape bearing the print legend is wrapped around the cabled assembly. A bare aluminum grounding/bonding conductor is located outside the binder tape, has the same lay as the insulated conductors, and maintains intimate contact with the overall armor. Green aluminum interlocking armor is applied over the cabled assembly. A sunlight resistant, direct burial rated PVC jacket is applied over the armored cable assembly.



The Power of Connections.™



Southwire®

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE		WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
	INSULATED GROUND	BONDING GROUND		
SOLID CONDUCTOR COLORS 120/208V				
12-2 SOLID (BLACK/WHITE) 16-2 SOLID (PURPLE/GRAY)	12 SOLID (GREEN)	10 SOLID ALUMINUM	242	.68
12-3 SOLID (BLACK/RED/WHITE) 16-2 SOLID (PURPLE/GRAY)	12 SOLID (GREEN)	10 SOLID ALUMINUM	269	.72
10-2 SOLID (BLACK/WHITE) 16-2 SOLID (PURPLE/GRAY)	10 SOLID (GREEN)	8 SOLID ALUMINUM	294	.74
STRANDED CONDUCTOR COLORS 120/208V				
12-2 STRANDED (BLACK/WHITE) 16-2 SOLID (PURPLE/GRAY)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	248	.69
12-3 STRANDED (BLACK/RED/WHITE) 16-2 SOLID (PURPLE/GRAY)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	278	.74
SOLID CONDUCTOR COLORS 277/480V				
12-2 SOLID (BROWN/GRAY) 16-2 SOLID (PURPLE/GRAY)	12 SOLID (GREEN)	10 SOLID ALUMINUM	242	.68
12-3 SOLID (BROWN/ORANGE/GRAY) 16-2 SOLID (PURPLE/GRAY)	12 SOLID (GREEN)	10 SOLID ALUMINUM	269	.72
10-2 SOLID (BROWN/GRAY) 16-2 SOLID (PURPLE/GRAY)	10 SOLID (GREEN)	8 SOLID ALUMINUM	294	.74
STRANDED CONDUCTOR COLORS 277-480V				
12-2 STRANDED (BROWN/GRAY) 16-2 SOLID (PURPLE/GRAY)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	248	.69
12-3 STRANDED (BROWN/ORANGE/GRAY) 16-2 SOLID (PURPLE/GRAY)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	278	.74
Consult NEC 310.15 for ampacities Other color combinations available upon request.				

FEATURES

- Compliance with NEC 330, NEC 725, NEC 517, and UL 1569
- Meets UL Product Category PJAZ (Metal-Clad Cable) and provides redundant equipment grounding conductors (as defined in NEC® 250.118) as required in NEC® 517.13(A) & (B).
- Installation instructions included with every reel and coil
- Simplified armored product application and installation
- Armor ground path is approximately 3.5 times better than Type AC HCF Cable and is equivalent to a green insulated copper grounding conductor.
- Available in neutral-per-phase and multi-circuit configurations
- UL Classified 1, 2, and 3 hour Through Penetration Firestop Systems: W-J-3037, W-L-3110, W-L-3113, W-L-3117, W-L-3120, W-L-3121, W-L-3160, C-AJ-3115, C-AJ-3140, C-AJ-3142, C-AJ-3145, C-AJ-3173, C-AJ-3202, C-AJ-4065, C-AJ-4066, F-C-3038.
- Anti-short bushings are not required for use with Type MC Cable per the NEC and UL.

