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ETHERNET  
SOLUTIONS

Hitachi Cable America designs and manufactures high-performance industrial Ethernet cables for users that demand superior performance and exceptional reliability. Our cable constructions are intended to exceed longevity expectations while providing maximum throughput. We do this by using higher quality raw materials and more robust designs than other manufacturers.

To accommodate a wide variety of applications, Hitachi Cable America offers dozens of unique designs intended to meet your specific needs. From high-flex to static, solid conductor to stranded, high-temperature to oil resistant, Hitachi has the right solution. Our most popular constructions are listed in this brochure and others can be found on our website. However, since engineering and manufacturing both occur in Manchester, New Hampshire, we can quickly and easily develop a custom cable if necessary.

Though product testing is extremely important with all cables, it is even more so with industrial cables. In addition to in-house testing, which includes environmental exposure testing in Hitachi Cable America's own environmental chambers, crush testing and electrical testing, flammability testing is performed to ensure the highest level of safety. Hitachi Cable America utilizes Underwriters Laboratories (UL), the world leader in product testing, for all of its flammability testing.

Part Number	Static or Flexible	Qty. of Pairs	Conductor (AWG) Insulation	Approvals	Category	Other	Transmission Performance (Mhz Range)	Jacket Material Cable OD Jacket Color	Shielded or Unshielded	LSZH	Operation Temps Installation Temps Celsius/Fahrenheit	Weight Per 1,000 ft.	Applications
41493-8	Static	4	22 STC PE Insulation	(UL) CMR-CMG-CMG 75C, (UL) PLTC - ER, (UL) AWM 2570 600V 80C	5e	Ethernet/IP, Gigabit Ethernet, 10Base-T, Noisy environments	1-250 Mhz	PVC .320" Black	Aluminum/polyester + 24 AWG (7/32) Tinned Copper Drain wire	-	-40(-40) to +75(167) -25(-13) to +75(167)	68 lbs (30.8Kg)	 
41219-8	Low Flexibility	4	22- 7/30 TC PFA/PP insulation	(UL) CMR-CMG-CMG 75C, (UL) PLTC - ER, (UL) AWM 2570 600V 80C	5e <sup>2</sup>	Ethernet/IP, Gigabit Ethernet, 10Base-T, Noisy environments	1-250 Mhz	PVC .340" Teal	Aluminum/polyester + 24 AWG (7/32) Tinned Copper Drain wire	-	-40(-40) to +75(167) -25(-13) to +75(167)	78 lbs (34.4Kg)	 
41239-8	Static	4	23 SBC PE insulation	(UL) CMR-CMG 75C, (UL) AWM 2570 600V 80C	6 <sup>2</sup>	Ethernet/IP, Gigabit Ethernet, 10Base-T	1-250 Mhz	PVC .295" Blue	Unshielded	-	-40(-40) to +75(167) -25(-13) to +75(167)	35 lbs (15.9Kg)	 
41488-8	Static	4	23 SBC PE insulation	(UL) CMR-CMG 75C, (UL) AWM 2570 600V 80C	6 <sup>2</sup>	Ethernet/IP, Gigabit Ethernet, 10Base-T, Noisy environments	1-250 Mhz	PVC .265" Black	Aluminum/polyester + 24 AWG Solid Tinned Copper Drain wire	-	-40(-40) to +75(167) -25(-13) to +75(167)	44 lbs (20Kg)	 
41489-8	Static	4	23 SBC FEP insulation	(UL) CMP 200C	6	Ethernet/IP, Gigabit Ethernet, 10Base-T, Noisy environments	1-250 Mhz	FEP .274" Blue	Aluminum/polyester + 36 AWG 85% Tinned Copper Braid	-	-80(-112) to +200(392) -60(-76) to +200(392)	51 lbs (23.1Kg)	 
30273-8	Static	4	23 SBC PE insulation	none	6	Ethernet/IP, Gigabit Ethernet, 10Base-T	1-250 Mhz	FRPO .260" Blue	Unshielded	Yes	-10(-14) to +80(176) 0(32) to +80(176)	31 lbs (14.1Kg)	
30180-8	Static	4	23 SBC PE insulation	none	6	Ethernet/IP, Gigabit Ethernet, 10Base-T	1-250 Mhz	PE .270" Black	Unshielded	Yes	-50(-58) to +75(176) -40(-40) to +75(176)	34 lbs (15.4Kg)	Direct Bury  
41144-8	Static or Flexible	4	23-7/31 TC FEP insulation	none	6	Ethernet/IP, Gigabit Ethernet, 10Base-T, Noisy environments, Tactical Cable	1-250 MHz	TPU .385" Black	Aluminum/Polyester + 36 AWG 65% Tinned Copper Braid	-	-40(-40) to +90(194) -25(-13) to +90(194)	77 lbs (35kg)	harsh environments, Breaking strength 3600 pound  
41134-8	Static	4	24 SBC PE insulation	(UL) CMR-CMG 75C, (UL) AWM 2570 600V 80C	5e <sup>1,2</sup>	Ethernet/IP, Gigabit Ethernet, 10Base-T	1-100 Mhz	PVC .265" Black	Unshielded	-	-40(-40) to +75(167) -25(-13) to +75(167)	30 lbs (13.6Kg)	 
41222-8	Static	4	24 SBC PE insulation	(UL) CMR-CMG 75C, (UL) AWM 2570 600V 80C	5e	Ethernet/IP, Gigabit Ethernet, 10Base-T, Noisy environments	1-100 Mhz	PVC .238" Black	Aluminum/polyester + 24 AWG Solid Tinned Copper Drain wire	-	-40(-40) to +75(167) -25(-13) to +75(167)	32 lbs (14.5Kg)	 
41490-8	Static	4	24 SBC PE insulation	(UL) AWM 20233 300V 80C	5e	Ethernet/IP, Gigabit Ethernet, 10Base-T, Noisy environments	1-100 Mhz	TPU .300" Black	Aluminum/polyester + 24 AWG Solid Tin Copper Drain wire	Yes	-25(-13) to +80(176) -15(5) to +80(176)	32 lbs (14.5Kg)	 
41492-8	Static	4	24 SBC PE insulation	(UL) AWM 20233 300V 80C	5e	Ethernet/IP, Gigabit Ethernet, 10Base-T, Noisy environments	1-100 Mhz	TPU .265" Black	Aluminum/polyester + 36 AWG 85% Tinned Copper Braid	Yes	-25(-13) to +80(176) -15(5) to +80(176)	46 lbs (20.8 Kg)	 
30200-8	Static	4	24 SBC PE insulation	none	5e	Ethernet/IP, Gigabit Ethernet, 10Base-T	1-100 Mhz	FRPO .216" Blue	Unshielded	Yes	-10(14) to +80(176) 0(32) to +80(176)	23 lbs (10.5Kg)	
41496-8	Static	4	24 SBC PE insulation	None	5e	Ethernet/IP, Gigabit Ethernet, 10Base-T, Noisy environments	1-100 Mhz	FRPO .273" Black	Aluminum/polyester + 24 AWG Solid Tinned Copper Drain wire	Yes	-10(14) to +80(176) 0(32) to +80(176)	32 lbs (14.5Kg)	 
30145-8	Static	4	24 SBC PE insulation	none	5e	Ethernet/IP, Gigabit Ethernet, 10Base-T	1-100 Mhz	PE .230" Black	Unshielded	Yes	-50(-58) to +75(167) -40(-40) to +75(167)	23 lbs (10.5Kg)	Direct Bury  
41249-8	High Flexibility	4	24-19/36 BC PE insulation	(UL) AWM 20233 300V 80C	5e <sup>1</sup>	Ethernet/IP, Gigabit Ethernet, 10Base-T	1-100 Mhz	TPE Belt, TPU Jacket .340" Black	Unshielded	Yes	-25(-13) to +80(176) -15(5) to +80(176)	44 lbs (20Kg)	 
41494-8	High Flexibility	4	24-19/36 BC PE insulation	(UL) AWM 20233 300V 80C	5e <sup>1</sup>	Ethernet/IP, Gigabit Ethernet, 10Base-T, Noisy environments	1-100 Mhz	TPE Belt, TPU Jacket .300" Black	38 AWG 92% Tinned Copper Braid	Yes	-25(-13) to +80(176) -15(5) to +80(176)	67 lbs (30.3Kg)	 
30152-8	Low Flexibility	4	24-7/32 TC PE insulation	None	6	Ethernet/IP, Gigabit Ethernet, 10Base-T	1-250 Mhz	FRPO .245" White	Unshielded	Yes	-10(14) to +80(176) 0(32) to +80(176)	30 lbs (13.6kg)	
41494-4	High Flexibility	2	24-19/36 BC PE insulation	(UL) AWM 20233 300V 80C	5e <sup>1</sup>	Ethernet/IP, Gigabit Ethernet, 10Base-T, Noisy environments	1-100 Mhz	TPE Belt, TPU Jacket .310" Black	38 AWG 92% Tinned Copper Braid	Yes	-25(-13) to +80(176) -15(5) to +80(176)	49 lbs (22.3kg)	 
41231-8	High Flexibility C-track	4	26-19/38 TC FEP insulation	(UL) AWM 20276	5e <sup>1,2</sup>	Ethernet/IP, Gigabit Ethernet, 10Base-T, Noisy environments	1-100 Mhz	PVC .240" White	38 AWG Tinned Copper Counter-Spiral shield	-	-40(-40) to +75(167) -25(-13) to +75(167)	38 lbs (17.2Kg)	
41495-8	High Flexibility C-track + torsion	4	26-19/38 TC Foam PE insulation	(UL) AWM 20233 300V 80C	5e <sup>1</sup>	Ethernet/IP, Gigabit Ethernet, 10Base-T, Noisy environments	1-100 Mhz	TPE Belt, TPU Jacket .300" Black	38 AWG 90% Tinned Copper Braid	Yes	-25(-13) to +80(176) -15(5) to +80(176)	44 lbs (20Kg)	 



- <sup>1</sup>Indicates that these cables exceed TIA Category 5e requirements for all performance parameters except attenuation.

- <sup>2</sup>These cables are also available in 1000V

- Moderate Flex is defined as C-Track tested to 5,000,000 cycles.

- High Flex is defined as C-Track and moderate torsion above 5,000,000 cycles.

- Definitions:

AWG: American Wire Gauge

AWM: Appliance Wire & Materials (UL)

BC: Bare Copper

FEP: Fluorinated Ethylene Propylene

FRPO: Flame Retardant Polyolefin

LSZH: Low Smoke Zero Halogen

PE: Polyethylene

PFA: Perfluoroalkoxy

PP: Polypropylene

PVC: Polyvinylchloride

STC: Solid Tinned Copper

SBC: Solid Bare Copper

TC: Tinned Copper

TPE: Thermoplastic Elastomer

TPU: Thermoplastic Polyurethane

UL: Underwriters Laboratories

 Oil Resistant  
 Solar/UV Resistant  
 High Heat



# WORLDWIDE COVERAGE

Hitachi Cable Industrial Ethernet cables are designed and manufactured at our modern 300,000 square-foot facility in Manchester, New Hampshire, USA. Hitachi Cable, one of the largest cable manufacturing companies in the world, operates manufacturing facilities in six continents producing thousands of different cable products.

In addition to Industrial Ethernet cables, the Manchester facility also manufactures Category 5e, 6 and 6A copper communication cables, round and flat electronics cables and a vast selection of singlemode and multimode fiber optic cables.

For more information about Hitachi Cable products, please contact the Manchester facility.

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