

Hybrid/Bundled

Product Highlights

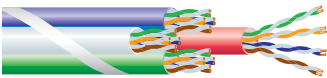
- Perfect for use when mixed fiber optic and/or copper media and coaxial cable is required
- Suitable for use in residential applications
- Supports reduced installation costs and simpler cable management

Packaging

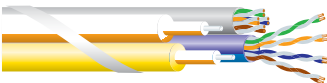
- 1,000 foot (305m) reels
- 500 foot (152m) reels

Options

- Dual- and Tri-shield RG-6 coaxial cables available
- Custom legends and jacket colors, including our innovative integrated jacket stripe, available



Unlimited jacket colors and identification schemes.



Speed pull design allows multiple cables to be pulled simultaneously.



Example of a composite fiber and copper cable that features an overall jacket and integrated stripe.

Diagram scale approx. 3:1

HCM reserves the right to revise any specifications.

Telecommunications standards recognize hybrid and bundled cable for use in a variety of applications. Beginning with premium twisted-pair and fiber optic cables, HCM can manufacture virtually any standard's compliant hybrid or bundled cable assembly. No other cable supplier can match our hybrid and bundled cable manufacturing expertise.

What is the difference between a hybrid and a bundled cable? According to the TIA definitions, the key difference is that an overall flame-retardant thermoplastic jacket covers a hybrid cable, while a skip-wrap or binding secures the cables in a bundled design.

hybrid cable: An assembly of two or more cables, of the same or different types or categories, covered by one overall sheath.

bundled cable: An assembly of two or more cables continuously bound together to form a single unit.

Since hybrid and bundled cables represent a custom construction, HCM's customer service representatives are available to help you design your solution. You should have the following information available before contracting our team of experts:

Construction Type (Hybrid or Bundled): _____

Flame Rating (General, Riser, or Plenum): _____

Use (Indoor, Indoor/Outdoor, OSP): _____

Number of Legs: _____

	Category or Fiber Type	# of Fibers or Pairs	Jacket color and/or custom designation
Leg 1			
Leg 2			
Leg 3			
Leg 4			
Leg 5			
Leg 6			

Examples of our most popular fiber hybrid constructions include:

HITACHI PART NO.	# OF PAIRS OR FIBERS	CABLE TYPE	FIRE RATING/USE
60056-18	Leg 1 12	62.5/125 m Multimode	CMP Indoor
	Leg 2 6	8.3/125 m Singlemode	
60052-24	Leg 1 12	62.5/125 m Multimode	CMR Indoor
	Leg 2 12	8.3/125 m Singlemode	
60116-18	Leg 1 12	62.5/125 m Multimode	CMR Indoor/ Outdoor
	Leg 2 6	8.3/125 m Singlemode	
60150-12	Leg 1 6	62.5/125 m Multimode	Outside Plant
	Leg 2 6	8.3/125 m Singlemode	
60136-36	Leg 1 24	62.5/125 m Multimode	Outside Plant
	Leg 2 12	8.3/125 m Singlemode	
60145-72	Leg 1 48	62.5/125 m Multimode	Outside Plant
	Leg 2 24	8.3/125 m Singlemode	

OMNIMedia

OMNIMedia™ (Riser) (CMR, CSA Type FT4)

OMNIMedia cables are hybrid solutions specifically designed to support mixed media applications, such as residential, requiring quad-shield RG-6 coaxial cables, fiber optic, and/or twisted-pair copper cables under an overall jacket. All OMNIMedia constructions are manufactured with TIA component-compliant cables and are suitable for use in riser-rated applications.

Examples of our most popular OMNIMedia constructions include:

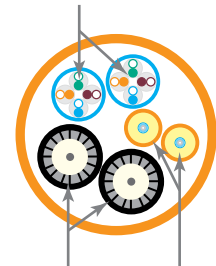
HITACHI PART NO.	# OF PAIRS OR FIBERS	CABLE TYPE	CABLE O.D. in.	mm	CABLE WEIGHT lbs/1000ft	kg/1000m
30125-17	Leg 1	4-Pair	Category 5e, blue jacket	.550	14.0	114.0
	Leg 2	4-Pair	Category 5e, gray jacket			
	Leg 3	-	RG-6 Quad Shield, black jacket			
30125-18	Leg 1	4-Pair	Category 5e, blue jacket	.650	16.5	154.0
	Leg 2	4-Pair	Category 5e, gray jacket			
	Leg 3	-	RG-6 Quad Shield, black jacket			
	Leg 4	-	RG-6 Quad Shield, white jacket			
61321-20	Leg 1	4-Pair	Category 5e, blue jacket	.660	16.8	161.0
	Leg 2	4-Pair	Category 5e, gray jacket			
	Leg 3	-	RG-6 Quad Shield, black jacket			
	Leg 4	-	RG-6 Quad Shield, white jacket			
	Leg 5	2-fiber	62.5/125 m Multimode, orange jacket			
61355-20	Leg 1	4-Pair	Category 5e, blue jacket	.650	16.5	163.0
	Leg 2	4-Pair	Category 5e, gray jacket			
	Leg 3	-	RG-6 Quad Shield, black jacket			
	Leg 4	-	RG-6 Quad Shield, white jacket			
	Leg 5	1-fiber	62.5/125 m Multimode, orange jacket			
	Leg 6	1-fiber	62.5/125 m Multimode, orange jacket			

Standard OMNIMedia cables without fiber optic legs feature an overall blue jacket. OmniMedia cables containing fiber optic legs feature an overall orange jacket. Contact our customer service team to design your own custom OMNIMedia solution.

Features

(sample construction)

(2) Category 5e UTP Cables



(2) RG-6 Quad Shield Coaxial Cables

(2) 1-fiber 62.5/125µm Interconnect Fiber Optic Cables

Transmission Specifications

	Nominal ODs		Nom.	RG-6 Quad Shield Cable			Nom. Attenuation		
	in.	mm.		Nom. Vel. Prop.	Nom. Capacitance pF/ft.	pF/m	MHz	dB/100ft	dB/100m
Cond.	.040	1.02	75	83%	16.3	53.5	5	0.6	2.0
Dielec.	.180	4.57					10	0.8	2.6
Final	.298	7.57					50	1.5	4.9
							100	2.1	6.9
							200	2.8	9.2
							400	4.2	13.8
							700	5.6	18.4
							900	6.3	20.7
						1000	6.7	22.0	

Construction: RG-6/U Type Quad Shield Broadband Coaxial Cable, 18 AWG Solid Copper Covered Steel Conductor, 36 /kit, 118 /km. Cellular Polyethylene Dielectric. Quad Shielded, Bonded Aluminum Foil, 60% Aluminum Braid, Aluminum Foil, 40% Aluminum Braid. Overall PVC Jacket.

