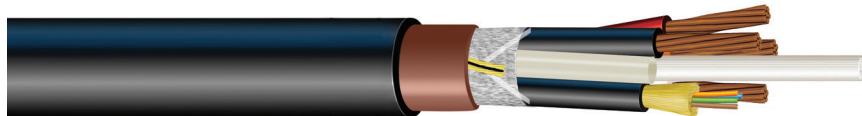


## 4G Hybrid Fiber-Copper Cable

Fiber and copper FTTA wireless cable



### *Versatile multi-purpose hybrid fiber cable*

#### **Applications**

4G hybrid cables offer a solution suitable for every FTTA wireless application. Our specially formulated compounds provide a full range of performance characteristics. The insulation and jacket compounds provide long term reliable service in the harshest environments, superior durability in heavy use applications and in extreme cold temperatures. This 4G hybrid cable can be customized to suit your exact requirements including various fiber optic cable designs, power limited data, signal and communications conductors.

#### **Feature and Benefits**

##### **Insulation**

- Heat and moisture resistant color coded polyvinyl chloride (PVC) in accordance to UL 83 for THW-2 or polyvinyl chloride (PVC) covered with a clear nylon jacket in accordance with UL 83 for THWN-2.
- Both insulation systems are suitable for continuous use at 90°C wet or dry.
- Insulation color coded in accordance with NEMA WC-57 (E1 or E2)
- Optional insulation materials: crosslinked polyethylene (XLPE), ethylene propylene rubber (EPR)

##### **Fillers**

- Individual conductors are cabled with flame resistant non-hygroscopic fillers where necessary to form a round core

##### **Fiber Optic Component Options**

- Bend-insensitive for added reliability
- Subunit construction loose tube or tight buffered
- Compliant with ITU G.657.A & B2 / G.652.D
- PVC or LSZH subunit jacket options are available

#### **Shield Options**

- Corrugated longitudinally - applied .005 or .010 copper
- Flat helically-applied .003, .005 or .010 copper tape
- Aluminum/mylar tape (with or without a drain wire)
- Copper/mylar tape (with or without a drain wire)
- Tinned copper braid

#### **Jacket**

- Sunlight, abrasion, oil and chemical resistant polyvinyl chloride (PVC) in accordance with IEC60332-2-23, UL 1277 and CSA 22.2 No. 230/239
- Optional jacketing materials: Low Smoke Zero Halogen (LSOH), chlorinated polyethylene (CPE), chlorosulfanated polyethylene (CSPE), polychloroprene (PCP), Polymeric Armor

#### **Available Ratings and Options**

- UL Type TC-ER (Type TC-OF-ER for fiber optic hybrid constructions)
- UL/CSA Sunlight Resistant
- 1,000 hour weatherometer (temperature, UV and moisture cycling)
- cUL CIC/TC
- CSA AWM I/II A/B
- CSA RW90 Type TC
- Flame Rating: IEEE1202 / FT4
- Voltage Rating: 600 to 2000 volts
- Temperature Rating: 90°C wet/dry
- Cold Temperature: -25°C or -40°C
- RoHS Compliant



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### Copper Subunits

Number of Conductors	Conductor Size AWG	Number of Strands	Class	THW Thickness (mils)	Jacket Thickness (mils)	Approximate OD (in)	Approximate Weight (lb/ft)
2	12	19	C	30	45	0.42	0.10
2	10	19	C	30	45	0.47	0.13
2	8	19	C	45	60	0.62	0.21
6	10	19	C	30	60	0.69	0.34
8	10	19	C	30	60	0.75	0.44
10	10	19	C	30	60	0.92	0.58
12	10	19	C	30	60	0.95	0.68
18	10	19	C	30	80	1.11	0.95
6	8	19	C	45	80	0.93	0.57
8	8	19	C	45	80	1.00	0.73
10	8	19	C	45	80	1.18	0.91
12	8	19	C	45	80	1.21	1.06
18	8	19	C	45	80	1.43	1.52
6	6	19	C	60	80	1.13	0.88
8	6	19	C	60	80	1.23	1.13
10	6	19	C	60	80	1.45	1.41
12	6	19	C	60	80	1.50	1.66
18	6	19	C	60	110	1.84	2.52

### Optical Fiber Subunits

Fiber Count	Fiber Type	LT or TB	Jacket Type	OD (nominal) in (mm)	Weight (nominal) lb/ft (kg/m)
2	Bend-Insensitive	Tight Buffered	PVC	0.19 (4.8)	0.01 (0.02)
6	Bend-Insensitive	Tight Buffered	PVC	0.24 (6.0)	0.02 (0.03)
12	Bend-Insensitive	Tight Buffered	PVC	0.28 (7.0)	0.03 (0.05)
4	Bend-Insensitive	Tight Buffered	LSZH	0.24 (6.1)	0.03 (0.04)
6	Bend-Insensitive	Tight Buffered	LSZH	0.24 (6.1)	0.03 (0.04)
8	Bend-Insensitive	Tight Buffered	LSZH	0.24 (6.1)	0.02 (0.04)
12	Bend-Insensitive	Loose Tube	PVC	0.20 (5.0)	0.02 (0.03)
16	Bend-Insensitive	Loose Tube	PVC	0.20 (5.0)	0.03 (0.04)
up to 36	Bend-Insensitive	Loose Tube	LSZH	0.32 (8.1)	0.03 (0.05)

Note: other constructions and performance grades available on request.