



**SUPERIOR
ESSEX®**



CONNECT IN THE TIME OF CRISIS:

EnduraGain® Cables Enable Critical Care Hospitals

CABLE IS CRITICAL IN THE TIME OF COVID-19

While the healthcare industry continues responding nobly to the global COVID-19 pandemic, our medical professionals are running out of space to treat those in need of critical care. As a result, new hospitals and healthcare facilities are being created every day, and every one of them requires network connections only made possible by communications cable.

At Superior Essex, we have over 90 years of experience manufacturing innovative wire and cable, and we understand the specific needs of creating an interconnected healthcare facility. We can answer the call to connect your hospital, your doctors, your nurses and your staff with your patients and their critical needs - enabling you to build more facilities as quickly as possible to save as many lives as possible.

Our popular family of EnduraGain® OSP cabling solutions are particularly suited for connecting hospitals and healthcare facilities, and we have plenty of it in stock and ready to ship to help you build, retrofit or upgrade the hospitals that are so vital to our shared survival.



EnduraGain® Product Features

EnduraGain® OSP is a robust category cable designed to provide an extension of the LAN beyond the premises or in situations where the NEC code requires an OSP-rated cable when it is in contact with earth, whether in a conduit or not.

- **ALUMINUM INTERLOCK ARMORED CONSTRUCTION:**
Protects against mechanical stresses and installs faster and easier than EMT conduit and conventional wire
- **OSP-GRADE JACKETING:**
This black, sunlight- and weather-resistant polyethylene is rated for years of reliable performance
- **TRANSMISSION PERFORMANCE:**
Characterized to 500 MHz for CAT 6 and 350 MHz for CAT 5e, this assures ample overhead for reliable transmission in an OSP-rated cable allowing extension of the premises LAN
- **INTERNAL PROTECTION:**
The wire pairs are surrounded by Superior Essex PFM™ gel that does not drip or flow, even at elevated temperatures.
- **NUMEROUS APPLICATIONS:**
10BASE-T through 1000BASE-T Ethernet, Power-over-Ethernet (PoE) - IEEE 802.3af, PoE+ - IEEE 802.3at Type 1 and 2, ATM and token ring



IN RECOGNITION OF OUR MANUFACTURING PLANT WORKERS

Since the U.S. government has classified Superior Essex as a provider of essential communications infrastructure, our dedicated employees are still working hard – and as safely as possible – in our manufacturing plants during the global COVID-19 pandemic. We want to honor and thank them for their critical and essential work in keeping our world connected and communicating throughout this crisis.



www.SuperiorEssexCommunications.com

EnduraGain™ OSP Cables | CAT 5e-6A

BROADEN YOUR REACH WITH SUPERIOR ESSEX

(Formerly BBD range—Part numbers remain unchanged)

Temperature Range: Installation (-40°F to 140°F), Operation (-40°F to 167°F)

Application: Data, PoE, Wireless, Security, OSP, Telecom
(point to point radio, SmallCell backhaul, remote powering)

EnduraGain OSP

Unshielded



Shielded



Armored



Interlock Armored



Duplex



Duct	Underground Conduit	Tower	Lashed Aerial	Low-risk Direct Burial	Direct Burial	Open Trench	Tested down to -67°F
•	•	•					•
•	•	•	•	•		•	•
•	•	•	•	•	•	•	•
•	•						
•	•	•				•	

EnduraGain Indoor/Outdoor

(Halogen Free, CM)

Shielded



Armored



•	•	•	•	•		•	
•	•	•	•	•	•	•	



EnduraGain® OSP Armored Indoor/Outdoor

Halogen-Free CM | Formerly BBDG I/O

PRODUCT DESCRIPTION

EnduraGain® OSP Armored Indoor/Outdoor is a CM rated category cable combining Outside Plant (OSP) Broadband features with an indoor application. It is designed to provide an extension of the LAN beyond the premises or in situations where the NEC code requires an OSP-rated cable and can be used inside the building according to NEC CM rated rules. The cable consists of four (4) balanced twisted pairs surrounded by Superior Essex PFM™ gel that does not drip or flow, even in cell tower applications at elevated temperatures. The jacketed core is covered with dry block and a shield providing exceptional Alien Crosstalk (AXT) performance. The outer jacket is an OSP-grade, black, halogen-free polyethylene for superior sunlight and abrasion resistance. This shielded design is suitable for the following deployments: duct, underground conduit, tower, lashed aerial, open trench or low-risk direct burial.

EnduraGain OSP Armored Indoor/Outdoor is available in a variety of performances including CAT 6 and CAT 6A.

APPLICATIONS

- CAT 6A: 10BASE-T through 10GBASE-T Ethernet; CAT 6: 10BASE-T through 1000BASE-T
- Power over Ethernet (PoE) - IEEE 802.3af
- PoE+ - IEEE 802.3at Type 1 and 2
- ATM and token ring

FEATURES

- Transmission performance characterized to 500 MHz
- Corrugated, copper-clad steel armor
- Dry block between armor and inner jacket
- PFM gel-filled core construction
- OSP-grade black polyethylene jacket
- UL® CM listed

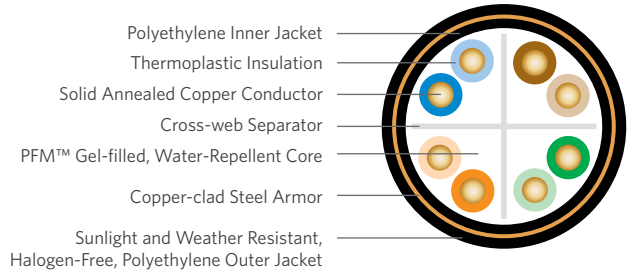
BENEFITS

- Assures ample overhead for reliable transmission in an OSP-rated cable allowing extension of the premises LAN
- Rugged armor provides protection against EMI/RFI and provides rodent resistance
- Prevents water ingress between shield/armor and inner cable preventing damage to equipment
- Prevents intrusion of moisture and easily wipes clean during installation
- Outside plant rated cable for years of reliable performance
- Allows for CM specific application
- Ideal for indoor/outdoor deployment



TECHNICAL GUIDELINE

Special connectivity is required for these cable designs. Bonding and grounding is important to prevent EMI. Refer to the "Resources" section on our site for the Technical Guideline, "OSP Broadband Installation Guidelines," for more information.



SPECIFICATIONS

Pair Count	4
Conductor	Solid annealed copper
Insulation	Polyolefin
Separator	CAT 6A/6: Polyolefin cross-web
Armor	Electrically continuous 0.005 in (0.13 mm) corrugated copper-clad steel armor, applied with an overlap
Dry Water Block	SAP yarn
Inner/Outer Jackets	Black, halogen-free, sunlight and weather-resistant polyethylene
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CAT 6A/6: 68
Performance Compliance	ANSI/TIA-568-C.2 CSA C22.2 No. 214-08 UL 444 UL 1685 UL 2556 ANSI/ICEA S-107-704-2012 RoHS-compliant/RoHS 2-compliant REACH-compliant
NRTL Programs	UL, c(UL) listed CM

ENVIRONMENTAL SPECIFICATIONS AND TESTS

Operation	-40°F to +167°F (-40°C to +75°C)
Installation	-40°F to +140°F (-40°C to +60°C)
ANSI/ICEA S-100-685-2009	Section 7.1: -4°F (-20°C) cold bend test Section 7.2: +14°F (-10°C) cold impact test Section 7.3: -40°F (-40°C) anvil test

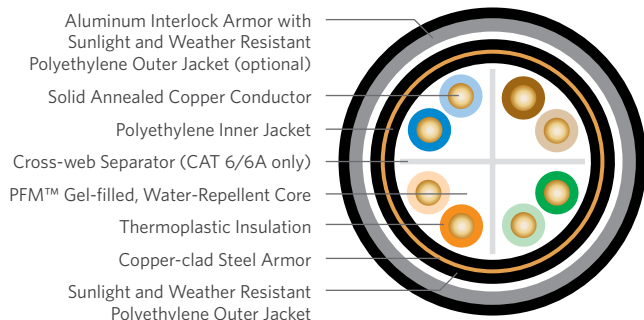
PART NUMBERS AND PHYSICAL CHARACTERISTICS

Category	Part Number	Product Type	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package
CAT 6A	04-001-A3	Armored	23 (0.57)	0.39 (9.8)	91 (136)	1,000' Plywood reel
CAT 6	04-001-63	Armored	23 (0.57)	0.39 (9.8)	91 (136)	1,000' Plywood reel

Additional part numbers, constructions and packaging available upon request. UL is a registered trademark of UL LLC.

EnduraGain® OSP Armored

Formerly BBDG



SPECIFICATIONS

Pair Count	4
Conductor	Solid annealed copper
Insulation	Polyolefin
Separator	CAT 6A/6: Polyolefin cross-web CAT 5e: none
Inner Armor	Electrically continuous 0.005 in (0.13 mm) corrugated copper-clad steel armor, applied with an overlap
Dry Water Block	SAP yarn
Jacket	Black, sunlight and weather resistant polyethylene
Optional Outer Armor	Interlocked aluminum armor covered with black, sunlight and weather resistant polyethylene jacket
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CAT 6A/6: 68 CAT 5e: 65
Performance Compliance	ANSI/TIA-568-C.2 ANSI/ICEA S-107-704-2012 RoHS-compliant/RoHS 2-compliant REACH-compliant

ENVIRONMENTAL SPECIFICATIONS AND TESTS

Operation	-40°F to +167°F (-40°C to +75°C)
Installation	-40°F to +140°F (-40°C to +60°C)
ANSI/ICEA S-100-685-2009 Tested down to -67°F (-55°C)	Section 7.1: -4°F (-20°C) cold bend test Section 7.2: +14°F (-10°C) cold impact test Section 7.3: -40°F (-40°C) anvil test

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Category	Part Number	Product Type	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package
CAT 6A	04-001-A5	Armored	23 (0.57)	0.39 (9.8)	72 (107)	1,000' Plywood reel
CAT 6	04-001-65	Armored	23 (0.57)	0.39 (9.8)	72 (107)	1,000' Plywood reel
CAT 5e	04-001-55	Armored	24 (0.51)	0.36 (9.1)	60 (89)	1,000' Plywood reel

Additional part numbers, constructions and packaging available upon request.

PRODUCT DESCRIPTION

EnduraGain® OSP Armored is a robust category cable designed to provide an extension of the LAN beyond the premises or in situations where the NEC code requires an OSP-rated cable when it is in contact with earth, whether in a conduit or not. The cable consists of four (4) balanced twisted pairs surrounded by Superior Essex PFM™ gel that does not drip or flow, even in cell tower applications at elevated temperatures. The jacketed core is covered with dry block and a corrugated, copper-clad steel armor providing exceptional Alien Crosstalk (AXT) performance. The outer jacket is an OSP-grade black polyethylene for superior sunlight and abrasion resistance. This armored design is suitable for the following deployments: duct, underground conduit, tower, lashed aerial, direct burial or open trench.

EnduraGain OSP Armored is available in a variety of performances including CAT 5e, CAT 6 and CAT 6A. An optional Aluminum Interlock Armor with overjacket is also available (not suitable for tower deployment).

APPLICATIONS

- CAT 6A: 10BASE-T through 10GBASE-T Ethernet;
- CAT 6/5e: 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) - IEEE 802.3af
- PoE+ - IEEE 802.3at Type 1 and 2
- ATM and token ring

FEATURES

- Transmission performance characterized to 500 MHz for CAT 6A/6 and 350 MHz for CAT 5e
- Corrugated, copper-clad steel armor
- Dry block between armor and inner jacket
- PFM gel-filled core construction
- OSP-grade black polyethylene jacket
- ColorTip® circuit identification system
- Aluminum interlock armored construction

BENEFITS

- Assures ample overhead for reliable transmission in an OSP-rated cable allowing extension of the premises LAN
- Rugged shield provides protection against EMI/RFI and provides rodent resistance
- Prevents water ingress between armor and inner cable preventing damage to equipment
- Prevents intrusion of moisture and easily wipes clean during installation
- Outside plant rated cable for years of reliable performance
- Easily identifiable conductor mates even in low-light environments
- Protects against mechanical stresses
- Installs faster and easier than EMT conduit and conventional wire

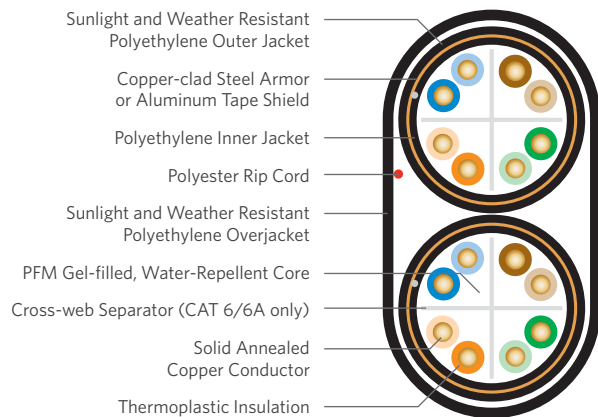


TECHNICAL GUIDELINE

Special connectivity is required for these cable designs. Bonding and grounding is important to prevent EMI. Refer to the "Resources" section on our site for the Technical Guideline, "OSP Broadband Installation Guidelines," for more information.

EnduraGain® OSP Duplex

Formerly OSP Broadband Duplex



SPECIFICATIONS

Pair Count	4
Conductor	Solid annealed copper
Insulation	Polyolefin
Separator	CAT 6A/6: Polyolefin cross-web CAT 5e: none
Shield/Armor	Armored: Electrically continuous 0.005 in (0.13 mm) corrugated copper-clad steel armor, applied with an overlap FTP: Electrically continuous 0.008 in (0.20 mm) polymer coated smooth aluminum tape shield, applied with an overlap
Dry Water Block	Armored: SAP yarn FTP: SAP powder
Inner Jacket/Outer Jacket/Overjacket	Black, sunlight and weather-resistant polyethylene
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CAT 6A/6: 68 CAT 5e: 65
Performance Compliance	ANSI/TIA-568-C.2 ANSI/ICEA S-107-704-2012 RoHS-compliant/RoHS 2-compliant REACH-compliant

ENVIRONMENTAL SPECIFICATIONS AND TESTS

Operation	-40°F to +167°F (-40°C to +75°C)
Installation	-40°F to +140°F (-40°C to +60°C)
ANSI/ICEA S-100-685-2009	Section 7.1: -4°F (-20°C) cold bend test Section 7.2: +14°F (-10°C) cold impact test Section 7.3: -40°F (-40°C) anvil test

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Category	Part Number	Product Type	AWG (mm)	Dimensions		Approx. Weight lbs/kft (kg/km)	Package
				Minor in (mm)	Major in (mm)		
CAT 5e	04-A01-55	Armored	24 (0.51)	0.44 (11.2)	0.76 (19.3)	148 (221)	1,000' Plywood reel

Additional part numbers, constructions and packaging available upon request.

PRODUCT DESCRIPTION

EnduraGain® OSP Duplex is a robust category cable designed to provide an extension of the LAN beyond the premises or in situations where the NEC code requires an OSP-rated cable when it is in contact with earth, whether in a conduit or not. The cable consists of a core of four balanced twisted pairs surrounded by Superior Essex PFM™ gel that does not drip or flow, even in cell tower applications at elevated temperatures. The jacketed core is covered with dry block and a shield providing exceptional Alien Crosstalk (AXT) performance. Two cores are then jacketed together under a sunlight and abrasion-resistant black, polyethylene overjacket including an aramid rip cord. This feature reduces installation and lease costs in tower application. This shielded design is suitable for the following deployments: duct, underground conduit, tower, lashed aerial, open trench or direct burial.

EnduraGain OSP Duplex is available in a variety of performances including CAT 5e, CAT 6 and CAT 6A. It is also available in Armored (copper-clad steel armor) and FTP (aluminum tape shield; not suitable for direct burial deployment) constructions.

APPLICATIONS

- CAT 6A: 10BASE-T through 10GBASE-T Ethernet;
- CAT 6/5e: 10BASE-T through 1000BASE-T
- Power over Ethernet (PoE) - IEEE 802.3af
- PoE+ - IEEE 802.3at Type 1 and 2
- ATM and token ring

FEATURES

- Transmission performance characterized to 500 MHz for CAT 6A/6 and 350 MHz for CAT 5e
- Corrugated, copper-clad steel armor
- Shield/armor
- Dry block between shield/armor and inner jacket
- PFM gel-filled core construction
- OSP-grade black polyethylene jacket
- ColorTip™ circuit identification system

BENEFITS

- Assures ample overhead for reliable transmission in an OSP-rated cable allowing extension of the premises LAN
- Rugged shield provides protection against EMI/RFI and provides rodent resistance
- Rugged shield provides protection against EMI/RFI and provides rodent resistance (Armored only)
- Prevents water ingress between shield in inner cable preventing damage to equipment
- Prevents intrusion of moisture and easily wipes clean during installation
- Outside plant rated cable for years of reliable performance
- Easily identifiable conductor mates even in low-light environments

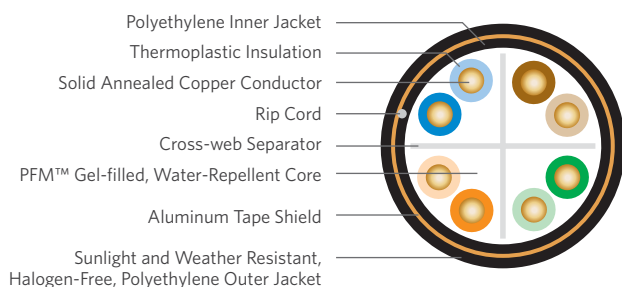


TECHNICAL GUIDELINE

Special connectivity is required for these cable designs. Bonding and grounding is important to prevent EMI. Refer to the "Resources" section on our site for the Technical Guideline, "OSP Broadband Installation Guidelines," for more information.

EnduraGain® OSP Shielded Indoor/Outdoor

Halogen-Free CM | Formerly BBDN I/O



SPECIFICATIONS

Pair Count	4
Conductor	Solid annealed copper
Insulation	Polyolefin
Separator	CAT 6A/6: Polyolefin cross-web
Shield	Electrically continuous 0.008 in (0.20 mm) polymer coated smooth aluminum tape shield, applied with an overlap
Dry Water Block	SAP powder
Inner/Outer Jackets	Black, halogen-free, sunlight and weather-resistant polyethylene
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CAT 6A/6: 68
Performance Compliance	ANSI/TIA-568-C.2 CSA C22.2 No. 214-08 UL 444 UL 1685 UL 2556 ANSI/ICEA S-107-704-2012 RoHS-compliant/RoHS 2-compliant REACH-compliant
NRTL Programs	UL, c(UL) listed CM

ENVIRONMENTAL SPECIFICATIONS AND TESTS

Operation	-40°F to +167°F (-40°C to +75°C)
Installation	-40°F to +140°F (-40°C to +60°C)
ANSI/ICEA S-100-685-2009	Section 7.1: -4°F (-20°C) cold bend test Section 7.2: +14°F (-10°C) cold impact test Section 7.3: -40°F (-40°C) anvil test

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Category	Part Number	Product Type	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package
CAT 6A	04-001-A2	FTP	23 (0.57)	0.39 (9.8)	84 (125)	1,000' Plywood reel
CAT 6	04-001-62	FTP	23 (0.57)	0.39 (9.8)	84 (125)	1,000' Plywood reel

Additional part numbers, constructions and packaging available upon request. UL is a registered trademark of UL LLC.

PRODUCT DESCRIPTION

EnduraGain® OSP Shielded Indoor/Outdoor is a CM rated category cable combining Outside Plant (OSP) Broadband features with an indoor application. It is designed to provide an extension of the LAN beyond the premises or in situations where the NEC code requires an OSP-rated cable and can be used inside the building according to NEC CM rated rules. The cable consists of four (4) balanced twisted pairs surrounded by Superior Essex PFM™ gel that does not drip or flow, even in cell tower applications at elevated temperatures. The jacketed core is covered with dry block and a shield providing exceptional Alien Crosstalk (AXT) performance. The outer jacket is an OSP-grade, black, halogen-free polyethylene for superior sunlight and abrasion resistance. This shielded design is suitable for the following deployments: duct, underground conduit, tower, lashed aerial, open trench or low-risk direct burial.

EnduraGain OSP Shielded Indoor/Outdoor is available in a variety of performances including CAT 6 and CAT 6A.

APPLICATIONS

- CAT 6A: 10BASE-T through 10GBASE-T Ethernet;
- CAT 6: 10BASE-T through 1000BASE-T
- Power over Ethernet (PoE) - IEEE 802.3af
- PoE+ - IEEE 802.3at Type 1 and 2
- ATM and token ring

FEATURES

- Transmission performance characterized to 500 MHz
- Shield
- Dry block between shield and inner jacket
- PFM gel-filled core construction
- OSP-grade black polyethylene jacket
- UL® CM listed

BENEFITS

- Assures ample overhead for reliable transmission in an OSP-rated cable allowing extension of the premises LAN
- Rugged shield provides protection against EMI/RFI and provides rodent resistance
- Prevents water ingress between shield and inner cable preventing damage to equipment
- Prevents intrusion of moisture and easily wipes clean during installation
- Outside plant rated cable for years of reliable performance
- Allows for CM specific application
- Ideal for indoor/outdoor deployment



TECHNICAL GUIDELINE

Special connectivity is required for these cable designs. Bonding and grounding is important to prevent EMI. Refer to the "Resources" section on our site for the Technical Guideline, "OSP Broadband Installation Guidelines," for more information.

PRODUCT DESCRIPTION

EnduraGain® OSP Shielded is a robust category cable designed to provide an extension of the LAN beyond the premises or in situations where the NEC code requires an OSP-rated cable when it is in contact with earth, whether in a conduit or not. The cable consists of four (4) balanced twisted pairs surrounded by Superior Essex PFM™ gel that does not drip or flow, even in cell tower applications at elevated temperatures. The jacketed core is covered with dry block and an 8 mil aluminum tape shield providing exceptional Alien Crosstalk (AXT) performance. The outer jacket is OSP-grade black, polyethylene for superior sunlight and abrasion resistance. This shielded design is suitable for the following deployments: duct, underground conduit, tower, lashed aerial or open trench.

EnduraGain OSP Shielded is available in a variety of performances including CAT 5e, CAT 6 and CAT 6A. An optional Aluminum Interlock Armor with overjacket is also available (not suitable for tower deployment).

APPLICATIONS

- CAT 6A: 10BASE-T through 10GBASE-T Ethernet;
- CAT 6/5e: 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) - IEEE 802.3af
- PoE+ - IEEE 802.3at Type 1 and 2
- ATM and token ring

FEATURES

- Transmission performance characterized to 500 MHz for CAT 6A/6 and 350 MHz for CAT 5e
- 8 mil aluminum tape shield
- Dry block between shield and inner jacket
- PFM gel-filled core construction
- OSP-grade black polyethylene jacket
- ColorTip® circuit identification system
- Aluminum interlock armored construction

BENEFITS

- Assures ample overhead for reliable transmission in an OSP-rated cable allowing extension of the premises LAN
- Rugged shield provides protection against EMI/RFI
- Prevents water ingress between shield and inner cable preventing damage to equipment
- Prevents intrusion of moisture and easily wipes clean during installation
- Outside plant rated cable for years of reliable performance
- Easily identifiable conductor mates even in low-light environments
- Protects against mechanical stresses
- Installs faster and easier than EMT conduit and conventional wire

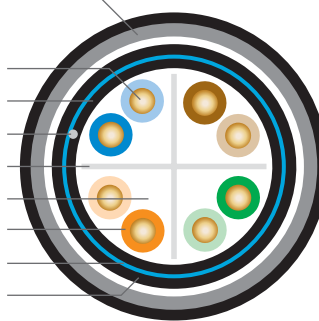


TECHNICAL GUIDELINE

Special connectivity is required for these cable designs. Bonding and grounding is important to prevent EMI. Refer to the "Resources" section on our site for the Technical Guideline, "OSP Broadband Installation Guidelines," for more information.



- Aluminum Interlock Armor with Sunlight and Weather Resistant Polyethylene Outer Jacket (optional)
- Solid Annealed Copper Conductor
- Polyethylene Inner Jacket
- Rip Cord
- Cross-web Separator (CAT 6/6A only)
- PFM™ Gel-filled, Water-Repellent Core
- Thermoplastic Insulation
- Aluminum Tape Shield
- Sunlight and Weather Resistant Polyethylene Outer Jacket



SPECIFICATIONS

Pair Count	4
Conductor	Solid annealed copper
Insulation	Polyolefin
Separator	CAT 6A/6: Polyolefin cross-web CAT 5e: none
Inner Shield	Electrically continuous 0.008 in (0.20 mm) polymer coated smooth aluminum tape shield, applied with an overlap
Dry Water Block	SAP powder
Jacket	Black, sunlight and weather resistant polyethylene
Optional Outer Armor	Interlocked aluminum armor covered with black, sunlight and weather resistant polyethylene jacket
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CAT 6A/6: 68 CAT 5e: 65
Performance Compliance	ANSI/TIA-568-C.2 ANSI/ICEA S-107-704-2012 RoHS-compliant/RoHS 2-compliant REACH-compliant

ENVIRONMENTAL SPECIFICATIONS AND TESTS

Operation	-40°F to +167°F (-40°C to +75°C)
Installation	-40°F to +140°F (-40°C to +60°C)
ANSI/ICEA S-100-685-2009 Tested down to -67°F (-55°C)	Section 7.1: -4°F (-20°C) cold bend test Section 7.2: +14°F (-10°C) cold impact test Section 7.3: -40°F (-40°C) anvil test

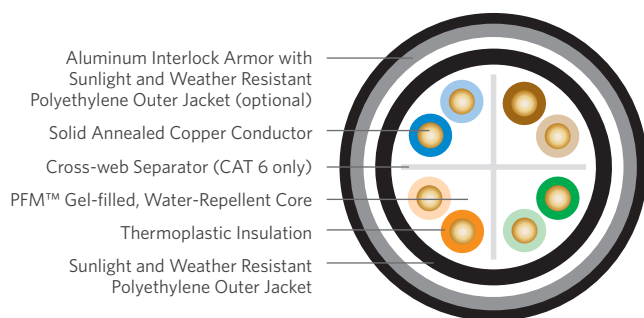
PART NUMBERS AND PHYSICAL CHARACTERISTICS

Category	Part Number	Product Type	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package
CAT 6A	04-001-A4	FTP	23 (0.57)	0.39 (9.8)	59 (88)	1,000' Plywood reel
CAT 6	04-001-64	FTP	23 (0.57)	0.39 (9.8)	59 (88)	1,000' Plywood reel
CAT 5e	04-001-54	FTP	24 (0.51)	0.36 (9.1)	49 (73)	1,000' Plywood reel

Additional part numbers, constructions and packaging available upon request.

EnduraGain® OSP Unshielded

Formerly BBD



SPECIFICATIONS	
Pair Count	4
Conductor	Solid annealed copper
Insulation	Polyolefin
Separator	CAT 6A/6: Polyolefin cross-web CAT 5e: none
Jacket	Black, sunlight and weather resistant polyethylene
Optional Outer Armor	Interlocked aluminum armor covered with black, sunlight and weather resistant polyethylene jacket
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CAT 6A/6: 68 CAT 5e: 65
Performance Compliance	ANSI/TIA-568-C.2 ANSI/ICEA S-107-704-2012 RoHS-compliant/RoHS 2-compliant REACH-compliant

ENVIRONMENTAL SPECIFICATIONS AND TESTS	
Operation	-40°F to +167°F (-40°C to +75°C)
Installation	-40°F to +140°F (-40°C to +60°C)
ANSI/ICEA S-100-685-2009 Tested down to -67°F (-55°C)	Section 7.1: -4°F (-20°C) cold bend test Section 7.2: +14°F (-10°C) cold impact test Section 7.3: -40°F (-40°C) anvil test

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Category	Configuration	Part Number	Product Type	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package
CAT 6A	n/a	04-001-A8	UTP	23 (0.57)	0.39 (9.8)	33 (49)	1,000' Plywood reel
CAT 6	Interlock armored	L4-001-68	UTP	23 (0.57)	0.56 (14.1)	101 (150)	1,000' Plywood reel
CAT 6	n/a	04-001-68	UTP	23 (0.57)	0.30 (7.6)	33 (49)	1,000' Plywood reel
CAT 5e	n/a	04-001-58	UTP	24 (0.51)	0.26 (6.6)	24 (36)	1,000' Plywood reel

Additional part numbers, constructions and packaging available upon request.

PRODUCT DESCRIPTION

EnduraGain® OSP Unshielded is a robust category cable designed to provide an extension of the LAN beyond the premises or in situations where the NEC code requires an OSP-rated cable when it is in contact with earth, whether in a conduit or not. The cable consists of a core of four (4) balanced twisted pairs surrounded by Superior Essex PFM™ gel that does not drip or flow, even in cell tower applications at elevated temperatures. The core is jacketed with a sunlight and abrasion resistant black, polyethylene outer jacket. This unshielded design is suitable for the following deployments: duct, underground conduit and tower.

EnduraGain OSP Unshielded is available in a variety of performances including CAT 5e, CAT 6 and CAT 6A. An optional Aluminum Interlock Armor with overjacket is also available (not suitable for tower deployment).

APPLICATIONS

- CAT 6A: 10BASE-T through 10GBASE-T Ethernet
- CAT 6/5e: 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) - IEEE 802.3af
- PoE+ - IEEE 802.3bt Type 1 through 4
- ATM and token ring

FEATURES

- Transmission performance characterized to 500 MHz for CAT 6A/6 and 350 MHz for CAT 5e
- Unshielded
- PFM gel-filled core construction
- OSP-grade black polyethylene jacket
- ColorTip® circuit identification system
- Aluminum interlock armored construction

BENEFITS

- Assures ample overhead for reliable transmission in an OSP-rated cable allowing extension of the premises LAN
- Small, robust design
- Prevents intrusion of and easily wipes clean during installation
- Outside plant rated cable for years of reliable performance
- Easily identifiable conductor mates even in low-light environments
- Protects against mechanical stresses
- Installs faster and easier than EMT conduit and conventional wire



TECHNICAL GUIDELINE

Special connectivity is required for these cable designs. Refer to the "Resources" section on our site for the Technical Guideline, "OSP Broadband Installation Guidelines," for more information.



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