

4X22 PowerWise® 1G, 4PPoE, Indoor/Outdoor, Sunlight Resistant, 1K FT BrakeBox®

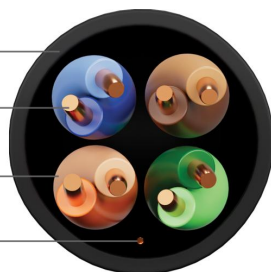
CMR, CMX

Part Number: PW52-H46-E1**Status:** AvailableFlame, Weather, Abrasion and Sunlight
Resistant Black PVC Jacket

Solid Annealed Copper Conductor

Thermoplastic Insulation

Heat Dissipation Element

**MADE
IN THE USA****HDBT****4PPoE****GENERAL SPECIFICATIONS**

Jacket	Tough, flame retardant, weather, sunlight and abrasion resistant riser PVC
Jacket Color	Black
End User Application	Enterprise, Residential, LAN
Environment	Indoor/Outdoor
Standards Compliance	UL 444 CSA C22.2 No. 214-08 UL 1581 UL 1666 ANSI/TIA-568.2-D ANSI/ICEA S-90-661-2012 ANSI/TIA/EIA-570-B Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant
NRTL Programs	HDBaseT Class A and B UL, c(UL) Listed CMR UL, c(UL) Listed CMX Outdoor Sunlight Resistant

COPPER SPECIFICATIONS

Pair Count	4
Conductor	Solid annealed copper
Conductor Count	8
AWG (mm)	22 (0.64)
Insulation	Polyolefin
Insulation Colors	Color Tip®: Light Blue, Blue, Light Orange, Orange, Light Green, Green, Light Brown, Brown
Heat Dissipation Element	Coated copper
Characteristic Impedance (Ohms)	100 ± 15
Voltage Rating	300
Nominal Velocity of Propagation (%)	69

ENVIRONMENTAL SPECIFICATIONS

Operating Temp. Range	-40°F to +167°F (-40°C to +75°C)
Installation Temp. Range	-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

PHYSICAL CHARACTERISTICS

Nominal Diameter in (mm)	0.27 (6.9)
Nominal Weight lbs/kft (kg/km)	34 (51)
Pallet Quantity (ft)	27000
Package Length	1000
Package Type	BrakeBox®
Packages per Pallet	12

Product Description

PowerWise® 1G 4PPoE Indoor/Outdoor cable is specifically designed for outdoor applications. UV-blocking compounds aid in protecting the cable from light. Applications include Ethernet interconnect cable for Wi-Fi or retrofit cable installations that employ exterior runs having long-term outdoor exposure between two environmentally protected points. CMX Outdoor cables are designed to extend the run between the Network Interface Unit and the point of entry into the interior of a residence or a premise. This cable has been tested and listed as UL® 444 Outdoor compliant. This designation requires the cable to resist 300 hours of UV and heat. In addition, the CMR listing allows the cable to be used in riser spaces per UL 1666, eliminating the need to transition to fire resistant cables.

PowerWise® 1G 4PPoE Indoor/Outdoor AWG 22 with heat dissipation element cables provide the best performance and overall value for 4 Pair Power over Ethernet (4PPoE) applications requiring up to 100W of power and up to 2.5GBASE-T Ethernet performance. PowerWise® 1G 4PPoE Indoor/Outdoor cables are specifically designed to mitigate temperature build-up offer exceptional energy efficiency and ensure performance (up to 2.5GBASE-T Ethernet) over the lifetime of your system. Cable temperature increases are reduced and power efficiency is increased as a result of 22 gauge conductors and the heat dissipation element.

PowerWise® 1G 4PPoE Indoor/Outdoor cable provides the performance benefits with a small diameter. PowerWise® 1G 4PPoE Indoor/Outdoor cables are the best solution to connect and power your 4PPoE and extended distance applications compared to standard category cable designs.

Applications

- 10BASE-T through 2.5GBASE-T Ethernet
- Power over Ethernet (PoE) - IEEE 802.3bt Type 1 to 4
- ATM and token ring
- Wi-Fi – IEEE 802.11a/b/g/n
- HDBaseT Class A and B

Features

- UL Certified Environmental Product Declaration (EPD)
- Guaranteed 0.3 dB headroom for IL, ACR and PSACR
- Tested 350 MHz
- Tested in most severe temperature conditions in bundle of 100 cables
- CableID® alpha numeric code printed every 2 feet
- QuickCount® marking system in feet and meters
- ColorTip® Circuit Identification System

Benefits

- Contributes toward 1 LEED point under the Material and Resources credit (MRC)
- Performance assurance for exceptional overall channel performance
- Assures ample bandwidth Headroom
- AWG 22 insulated wire offers 88% power efficiency and lowest temperature increase inside a bundle, the best of its class
- Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
- Provides remaining length of cable on reel
- Easily identifiable conductor mates even in low-light environments

- Color coded box labels
- HDBaseT Class A and B certified
- Moisture-resistant package
- BrakeBox® payout control system
- Tough, weather resistant PVC jacket
- Combined indoor/outdoor rating
- Heat dissipation element
- Ideal for extended distance over 100m
- Easily identifies jacket colors
- Ideal for any A/V applications up to 100m channel
- Resists damp conditions that might weaken standard packages
- Adjustable tension control on reel prevents over spin and entangling of cable
- Increases life of cable by providing/Reduces inventory by eliminating/Mitigate the heat to same level along the whole distance of the link for improved bandwidth performances multiple cable types low temperature handling and UV resistance; cable jacket resists cracking over time
- Reduces inventory by eliminating multiple cable types
- Mitigate the heat to same level along the whole distance of the link for improved bandwidth performances
- Guaranteed distance for different applications based on BER test performed by UL at UL facility



Technical Guideline



Cautionary Information

Do not use as a substitute for Outside Plant (OSP) cables. Do not use in conduit or direct burial which can flood. These cables are not designed for extended exposure to water. For distance and warranty information, click here to view TGI15 PowerWise® Extended Distance Frequently Asked Questions.

SUSTAINABILITY CERTIFICATIONS

