

Berk-Tek LANmark-B840 Cat 6 PLTC FTP Solid CMR-CMX Outdoor PVC



Berk-Tek LANmark Industrial Medium-Duty Ethernet Cables enable the expansion and integration of Ethernet into the Industrial environment. With over 50 years of manufacturing expertise, you can be sure these Industrial Cables will perform both mechanically and electrically. With its PLTC, 600V AWM design, industrial PVC jacket, cold-bend performance, and resistance to sunlight and oil, this cable is suitable for industrial tray applications. It is rated CMR and CMX Outdoor, so it easily transitions from indoor to outdoor environments. It is also suitable for PLTC tray installations in Class I , Division 2 Hazardous locations according to NEC Article 500.

DESCRIPTION

Construction

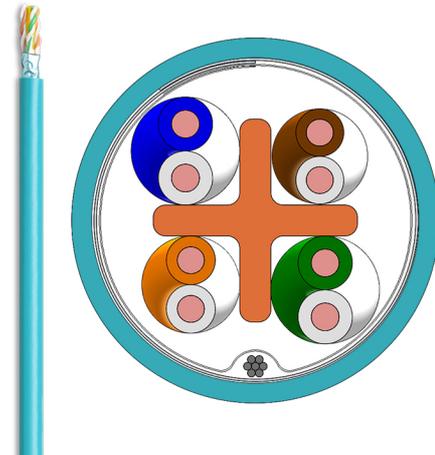
22 AWG solid bare copper wire insulated with HDPE, Two insulated conductors twisted together to form a pair and four pairs laid up to form the basic unit. The cable is shielded with an overall polyester/aluminum foil with a 26 AWG stranded tinned copper drain wire and jacketed with industrial PVC.

Related Standards

Low Voltage - EU Directive 2014/35/EU, CE Approved

RoHS - EU Directive 2011/65/EU

PoE Compliant: IEEE 802.3bt Type 1(af, PoE), 2 (at, PoE), 3 and 4



STANDARDS

International ISO/IEC 11801

National ANSI/TIA-568.2-D;
UL 444

Ratings		
Description	Method	
Listed Type	UL13	PLTC
Listed Type	UL1666	CMR
Listed Type	UL444	CMX Outdoor
Oil Resistance	UL1581 50.182	60°C
Sunlight Resistance	UL444 7.22	Yes (720 hrs)

Attributes		
Description	Method	
AWM Style	UL758	21695 (600V, 80°C)
Cold Bend	UL444 7.10	-40°C
Weld Spatter Resistance	Internal	Yes
Installation Pull Tension (Max):		
Bend Radius: > 3 inch	Internal	40 lbs.
Bend Radius: > 1.47 inch	TIA 568.2-D	25 lbs.
Abrasion	UL2556 7.10	75 cycles/1.5 lb. load

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CHARACTERISTICS

Construction characteristics

Conductor material	22 AWG Solid Bare Copper
Filler	HDPE Cross Filler
Insulation	HDPE
Jacket Material	PVC
Shielding	Aluminum/Polyester
Core Tape	Polyester

Dimensional characteristics

Insulated conductor diameter (Nominal)	0.059 in
Average jacket thickness	0.04 in
Minimum jacket thickness at any point	0.032 in
Cable diameter (Nominal)	0.368 in
Nominal cable weight	55 lb/kft
Length per reel	1000.0 ft

Electrical characteristics

Nominal velocity of propagation	61 %
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Usage characteristics

Minimum Bending Radius - Install	1.47 in
Recommended installation temperature range	-20 .. 80 °C
Recommended operating temperature range	-40 .. 80 °C
Recommended storage temperature range	-40 .. 80 °C

PRODUCT LIST

Part Number	Description	Packaging	Colour
 11101314	LANmark-B840 Cat 6 PLTC FTP Solid CMR-CMX Outdoor PVC	Reel	Teal
 11104013	LANmark-B840 Cat 6 PLTC FTP Solid CMR-CMX Outdoor PVC	Reel	Black

 = Make to order,  = In stock

LANMARK-B840 - TECHNICAL INFORMATION

Transmission Characteristics

Description

ANSI/TIA-568.2-D		Category 6
Transfer Impedance	IEC 61156-5	Grade 2
Coupling Attenuation	IEC 61156-5	Type I
Maximum Cable Length		100m

Color Code

Pair-1	White/Blue	Blue
Pair-2	White/Orange	Orange
Pair-3	White/Green	Green
Pair-4	White/Brown	Brown