

Berk-Tek LANmark-B907 Cat 5e Shielded PVC



Berk-Tek LANmark Industrial Medium-Duty Ethernet Cables (Zone B) 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 600V AWM design, durable PVC jacket, cold-bend performance and resistance to oil, this cable is suitable for demanding industrial applications. This product has both a foil shield and a braid to protect against low- and high-frequency noise on the factory floor. Additionally, the stranded conductors also help maintain performance in a high-vibration environment. It is rated CMR and CMX Outdoor, so it easily transitions from indoor to outdoor environments and is also suitable for cable tray installations.

DESCRIPTION

Construction

24 AWG stranded tinned copper wire insulated with HDPE. Two insulated conductors twisted together to form a pair and four such pairs to form the basic unit, surrounded by foamed polypropylene tape. Aluminum/polyester tape shield and 38 AWG braid of 75% optical coverage contained within an industrial grade PVC jacket.

Related Standards

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

RoHS - EU Directive 2011/65/EU

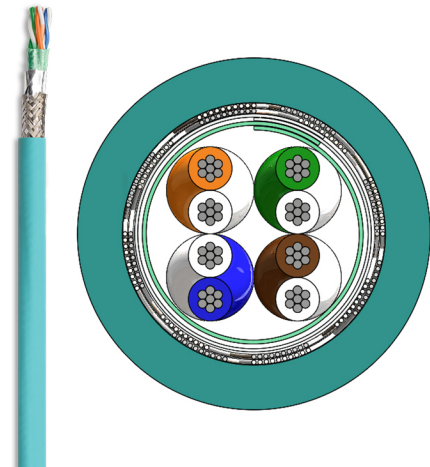
PoE+ - Type 2 (802.3at)

Agency Ratings

Description	Method	
Listed Type	UL1666	CMR
Listed Type	UL444	CMX Outdoor
Oil Resistance	UL1581	60°C
Weather (sunlight) Resistance	UL444 7.12	Yes (300 hrs)

Attributes

Description	Method	
AWM Style	UL758	2463 (600V, 80°C)
Installation Pull Tension (Max):		
Bend Radius: > 3 inch	Internal	40 lbs.
Bend Radius: > 1.2 inch	TIA 568.2-D	25 lbs.



EtherNet/IP™
ODVA Compliant

STANDARDS

International ISO/IEC 11801;
ODVA EtherNet/IP Compliant

National ANSI/TIA-568.2-D;
UL 444

CHARACTERISTICS

Construction characteristics

Conductor material	24 AWG Stranded Tinned Copper (7/32)
Insulation	HDPE
Jacket Material	PVC
Braid	Tinned copper - 75% optical coverage
Shielding	Aluminum/Polyester
Core Tape	Foamed polypropylene

Dimensional characteristics

Insulated conductor diameter (Nominal)	0.046 in
Average jacket thickness	0.033 in
Minimum jacket thickness at any point	0.026 in
Cable diameter (Nominal)	0.3 in
Nominal cable weight	46 lb/kft

Electrical characteristics

Nominal velocity of propagation	66 %
---------------------------------	------


Transmission characteristics



Insertion loss de-rating factor	1.2
---------------------------------	-----

Usage characteristics

Minimum Bending Radius - Install	1.2 in
Recommended installation temperature range	-20 .. 80 °C
Recommended operating temperature range	-40 .. 80 °C
Recommended storage temperature range	-40 .. 80 °C
Maximum cable length	83 m
Cold Bend	-40 °C

PRODUCT LIST

Part Number	Description	Length per reel [ft]	Colour
 11102143	LANmark-B907 Cat 5e Shielded PVC	1000.0	Teal

 = Make to order,  = In stock

LANMARK-C542 - TECHNICAL INFORMATION

Transmission Characteristics

Description

ISO/IEC 11801		Category 5
ANSI/TIA-568.2-D		Category 5e
Coupling Attenuation	IEC 61156-5	Type II
Transfer Impedance	IEC 61156-5	Grade 2
ODVA Ethernet/IP™ Compliant		Category 5e

Color Code

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