

Berk-Tek LANmark-C538 Cat 5e High Flex 2-Pr TPE

Berk-Tek LANmark Industrial Heavy-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 600V AWM design, durable TPE jacket, cold-bend performance, and resistance to oil, weld spatter, and sunlight, this cable is suitable for demanding, continuous-motion, industrial applications. Additionally, the stranded conductors also help maintain performance in a high-vibration environment.

DESCRIPTION

Construction

24 AWG stranded tinned copper wire insulated with HDPE. Two insulated conductors twisted together to form a pair and two such pairs to form the basic unit, enclosed by foamed polypropylene, with TPE jacket.

Related Standards

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

RoHS - EU Directive 2011/65/EU

PoE+ - Type 2 (802.3at)

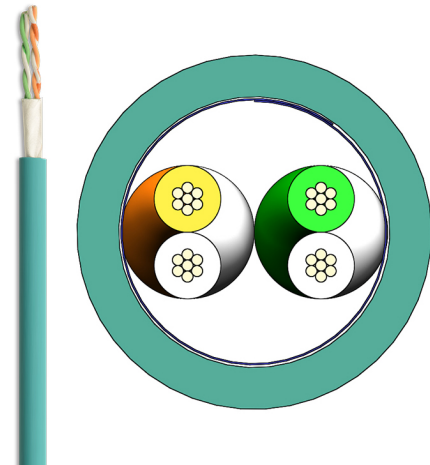
ODVA EtherNet/IP™ Compliant

Agency Ratings

Description	Method	
Listed Type	UL1685	CM
Listed Type	UL444	CMX Outdoor
Oil Resistance	UL1277 11.2	II (75°C)
Sunlight Resistance	UL444 7.22	Yes (720 hrs)

Attributes

Description	Method	
AWM Style	UL758	2463 (600V, 80°C)
Flex Life	C-Track, 4" radius	> 35 million cycles
Flex Life	Torsion (+/- 270°)	> 3 million cycles
Installation Pull Tension (Max):		
Bend Radius: > 3 inch	Internal	40 lbs.
Bend Radius: > 1.16 inch	TIA 568-C.0	25 lbs.
Abrasion	UL2556 7.10	75 cycles/1.5 lb. load



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	TPE
Core Tape	Foamed polypropylene

Dimensional characteristics

Insulated conductor diameter (Nominal)	0.0392 in
Average jacket thickness	0.03 in
Minimum jacket thickness at any point	0.024 in
Cable diameter (Nominal)	0.24 in
Nominal cable weight	24.5 lb/kft
Length per reel	1000.0 ft

Electrical characteristics

Nominal velocity of propagation	66 %
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Transmission characteristics



Insertion loss de-rating factor	1.2
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Usage characteristics

Minimum Bending Radius - Install	0.98 in
Packaging	Reel
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
Weld spatter resistance	Yes

PRODUCT LIST

Part Number	Description	Colour
 11099206	LANmark-C538 Cat 5e High Flex 2-Pr TPE	Teal
 11102381	LANmark-C538 Cat 5e High Flex 2-Pr TPE	Black
 11104147	LANmark-C538 Cat 5e High Flex 2-Pr TPE	Orange
 11104148	LANmark-C538 Cat 5e High Flex 2-Pr TPE	Blue

 = Make to order,  = In stock

LANMARK-C538 - TECHNICAL INFORMATION

Transmission Characteristics		
Description		
ISO/IEC 11801		Category 5
ANSI/TIA-568.2-D		Category 5e
ODVA EtherNet/IP™ Compliant		Category 5e
Color Code		
Pair-1	White/Orange	Orange
Pair-2	White/Green	Green