

LANmark-B540 Cordset - Cat 5e, U/UTP PVC, RJ-RJ, IP20 rated



Berk-Tek LANmark Industrial cordsets enable the expansion and integration of Ethernet into machines, sensors, PLC/DCS networks and various industrial environments. With over 50 years of cable manufacturing experience, Nexans offers best-in-class Industrial Ethernet cables that perform reliably in industrial harsh conditions, leading to maximum production uptime and efficiency.

DESCRIPTION

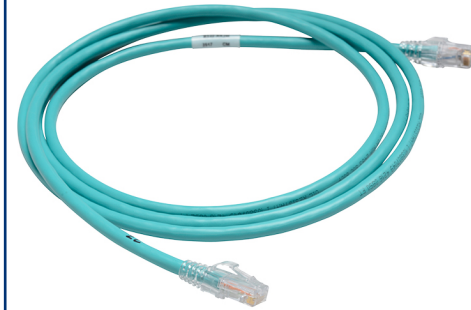
With its 600V AWM design, stranded conductors and Industrial PVC jacket resistant to abrasion and oil, this cordset is ideal for interconnecting devices and switches in enclosures, machines and control rooms where high-vibration and tight spaces are present. This cable is also rated CMR and CMX outdoor, so it transitions easily from indoor to outdoor environments. This cordset is available in various lengths.

Related Standards:

UL 444 and C22.2 No. 214.02

CE Approved: EU Directive 2014/35/EU (Low Voltage)
EU Directive 2011/65/EU (RoHS)
PoE+ - Type 2 (802.3at)
TIA 1096
UL 94 - V0

Agency Ratings		
Description	Method	
Listed Type	UL1666	CMR
Listed Type	UL444	CMX Outdoor
AWM Style	UL758	2463 (600V, 80°C)



STANDARDS

International ISO/IEC 11801

National ANSI/TIA-568.2-D;
UL 444; UL 94 V0

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CHARACTERISTICS

Construction characteristics

Type of cable	U/UTP
Conductor material	24 AWG Stranded Tinned Copper (7/32)
Insulation	HDPE
Jacket Material	PVC
Shielding	None
Core Tape	Foamed polypropylene
Connector type	RJ 45
Load Bar	Polycarbonate
Contacts	Copper Alloy with Gold Plating
Plug Body	Polycarbonate
Connector Orientation	Straight
Wiring type	EIA / TIA568B
Boot/Strain Relief	Polycarbonate



Dimensional characteristics



Insulated conductor diameter (Nominal)	0.04 in
Average jacket thickness	0.03 in
Minimum jacket thickness at any point	0.024 in
Cable diameter (Nominal)	0.25 in
Nominal cable weight	34 lb/kft
Number of pairs	4

Usage characteristics

Category	Cat. 5e
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PRODUCT LIST

Part Number	Description	Colour	Length [m]
 11099839	LANmark-B540 Cordset - Cat 5e, RJ-RJ, IP20 rated, 2m	Teal	2
 11099841	LANmark-B540 Cordset - Cat 5e, RJ-RJ, IP20 rated, 5m	Teal	5

 = Make to order,  = In stock

MICE CHARACTERISTICS*

Mechanical		
Abrasion Resistance	75 cycles	UL 2556 7.10 (1.5 lb. load)
Cold Bend	-40°C	UL 444
Minimum Bend Radius (Static)	1.00 in	TIA 568-C.0
Connector Mating Cycles	750 insertions max	

Ingress		
Characteristic	Value	Method
IP Rating (Connector)	20	IEC 60529

Climatic and Chemical		
Characteristic	Value	Method
Oil Resistance	I (60°C)	UL 1277 12.2
UV Resistance	300 hours	UL 444 7.22
Storage Temperature	-40°C - 80°C	Internal
Static Operating Temperature	-40°C - 80°C	Internal

Electromagnetic		
Characteristic	Value	Method
Transmission Performance	Category 5e	ANSI/TIA 568.2-D
Mutual Capacitance (Maximum)	5.6 nF/100m	
DC Resistance (Maximum)	9.38 Ohm/100m	
DC Resistance Unbalance (Maximum)	5%	
Nominal VoP	67%	
Pair-to-ground Unbalance (Maximum)	330 pF/100m	
Skew (Maximum)	45 ns/100m	
Power over Ethernet	PoE+ Type 2	IEEE (802.3at)
Insertion Loss De-rating Factor	1.2	

*Characteristics apply to cable only except where connector is specified.

4-PAIR COLOR CODE

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