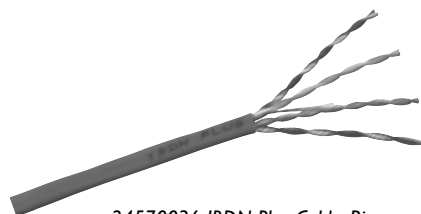
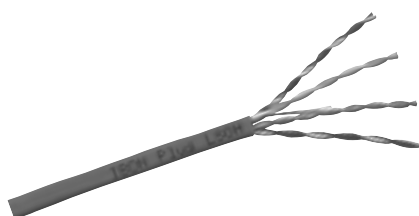


6.9.4-A IBDN Plus Cable**6.9.4-B IBDNFlex Plus Cable****6.9.4-C IBDN Plus LSOH Cable**

24570036 IBDN Plus Cable, Riser



24570750 IBDNFlex Plus Cable, Plenum



24570152 IBDN Plus LSOH Cable

DESCRIPTION

IBDN Plus Cable Series consist of 4-pair UTP cables, which exceed the Category 5 requirements of ANSI/TIA/EIA-568-A and CSA T529-95 specifications.

IBDN Plus Cable Series has very low propagation delay difference (skew) properties and are PowerSum Category 5 products.

FEATURES & BENEFITS

- Uniformity of insulation provides very low differential propagation delay (skew)
- PowerSum for parallel transmission protocols and improved operating headroom
- Small outside diameter, cable is less likely to kink or snag during installation
- Higher immunity to effects of electromagnetic interference, minimized disruption to transmission signals
- Descending distance marking for length verification reduces waste
- Matching tip and ring color code for ease of installation.

APPLICATIONS

IBDN Plus Cable Series is intended to be used for horizontal cable installations of high-speed Local Area Networks (LANs) such as:

- 155 Mb/s ATM, 100 Mb/s TP-PMD, 100 Mb/s Ethernet (100BASE-T), and other systems using up to 622 Mb/s transmission speeds
- 10 Mb/s Ethernet (IEEE 802.3 10BASE-T)
- 4 Mb/s and 16 Mb/s Token Ring (IEEE 802.5).

TECHNICAL SPECIFICATIONS

- Minimum Recommended Installation Temperature: 5°C (40°F)
- Temperature Rating: 60°C (140°F).

Description	Nominal O.D.	Min. Bend Radius	Weight (Cable only)
IBDN Plus Cable, 4-pair 24 AWG, CMR	4.72 mm (0.186 in.)	21.12 mm (0.832 in.)	3.6 kg/100 m (24.0 lb/kft)
IBDNFlex Plus Cable, 4-pair 24 AWG, CMP	4.78 mm (0.188 in.)	19.10 mm (0.752 in.)	3.2 kg/100 m (22.0 lb/kft)
IBDN Plus LSOH Cable, 4-pair 24 AWG, LSOH	5.03 mm (0.198 in.)	21.76 mm (0.856 in.)	3.7 kg/100 m (25.0 lb/kft)

Physical Characteristics**Construction**

- Conductors: 24 AWG solid copper
- Insulation — CMR & LSOH: Polyolefin (PE)
- Insulation — CMP (Dual Insulation):
 - Under layer: polyolefin base
 - Over layer skin of Fluorinated Ethylene Propylene (FEP)
 - Color coding as per ANSI/TIA/EIA-568-B.
- Cable Core: 4 twisted pairs formed into a cable core, equipped with jacket splitting cord
- Jacket:
 - CMR: PVC
 - CMP: LSPVC
 - LSOH: Low Smoke & Fume Zero Halogen Polymer Alloy
 - Jacket printed at intervals indicating cable code, AWG, listings (NEC Code), verification, date, time and manufacturing traceability code
 - Descending length markings start at highest number and end at 0.

COMPLEMENTARY PRODUCTS

IBDN Plus Cable
6.9.4-A

IBDNFlex Plus Cable
6.9.4-B

IBDN Plus LSOH Cable
6.9.4-C

IBDN Copper Solutions

Labels
LabelFlex

6.4.1-A

Patch Panels
PS5E HD Patch Panels

6.5.2

Workstation Outlets
GigaFlex PS5E Modules

6.7.2

EZ-MDVO PS5E Modules

6.7.4-A

PS5E DVO Outlets

6.7.22

Transmission Characteristics

- DC Resistance @ 20°C, max.: 9.38 Ω /100 m
- DC Resistance Unbalance, max.: 5%
- Mutual Capacitance, max.: 5.6 nF/100 m
- Capacitance Unbalance Pair to Ground, max.: 330 pF/100 m

- Characteristic Impedance: 100 $\pm$ 15 Ω from 1 MHz to 100 MHz
- Nominal Velocity of Propagation (NVP): - Plenum: 72% @ 10 MHz ; - Non-Plenum: 68% @ 10 MHz
- Propagation Delay (Skew), max.: 25 ns/100 m.

FREQUENCY (MHz)	ATTENUATION (dB/100m) (max.)	NEXT (dB) (min.)	PSNEXT (dB) (min.)	ACR (dB) (min.)	PSACR (dB) (min.)	SRL (dB) (min.)
0.772	1.8	67.0	64.0	65.2	62.2	—
1.0	2.0	65.3	62.3	63.3	60.3	23.0
4.0	4.1	56.3	53.3	52.2	49.2	23.0
8.0	5.8	51.8	48.8	46.0	43.0	23.0
10.0	6.5	50.3	47.3	43.8	40.8	23.0
16.0	8.2	47.3	44.3	39.0	36.0	23.0
20.0	9.3	45.8	42.8	36.5	33.5	23.0
25.0	10.4	44.3	41.3	33.9	30.9	22.0
31.25	11.7	42.9	39.9	31.2	28.2	21.1
62.5	17.0	38.4	35.4	21.4	18.4	18.1
100.0	22.0	35.3	32.3	13.3	10.3	16.0
155.0	28.1	32.5	29.5	4.4	1.4	14.1

QUALIFICATIONS

- Meets or exceeds the Category 5 requirements per ANSI/TIA/EIA-568-A, CSA T529-95 and ISO/IEC 11801-1995
- Meets or exceeds the Category 5 requirements per NEMA Standard WC 63.1-1996
- Meets or exceeds the Category 5 requirements of ICEA S-90-661-1997
- Non-Plenum: ITS/ETL Certified as CMR, and listed as NEC Type CMR per UL Standard 444
- Plenum: ITS/ETL Certified as CMP, and listed as NEC Type CMP per UL Standard 444.
- LSOH : ISO/IEC 332-1, 754-2 and 1034-2.

ORDERING INFORMATION

The ordering information for the most frequently ordered IBDN Plus Cable Series is given below. Alternative colors and packaging are also available, subject to Minimum Order Quantities. Please check with customer service for availability.

6.9.4-A IBDN Plus Cable

DETAIL	COLOR	LENGTH	PACKAGING	NO OF PACKS PER PALLET	TOTAL PER PALLET	UPC	ORDERING NUMBER
4-pair, 24 AWG, CMR, Cat 5	Blue	305 m (1000 ft.)	Box	45 boxes/pallet	13725 m (45000 ft.)	628575005345	24570036
4-pair, 24 AWG, CMR, Cat 5	White	305 m (1000 ft.)	Box	45 boxes/pallet	13725 m (45000 ft.)	628575005819	24570086
4-pair, 24 AWG, CMR, Cat 5	Yellow	305 m (1000 ft.)	Box	45 boxes/pallet	13725 m (45000 ft.)	628575005932	24570098
4-pair, 24 AWG, CMR, Cat 5	Blue	305 m (1000 ft.)	11N Spool	60 spools/pallet	18300 m (60000 ft.)	628575005642	24570069
4-pair, 24 AWG, CMR, Cat 5	White	305 m (1000 ft.)	11N Spool	60 spools/pallet	18300 m (60000 ft.)	628575005802	24570085
4-pair, 24 AWG, CMR, Cat 5	Yellow	305 m (1000 ft.)	11N Spool	60 spools/pallet	18300 m (60000 ft.)	628575007172	24570276
4-pair, 24 AWG, CMR, Cat 5	Blue	762 m (2500 ft.)	14N Spool	27 spools/pallet	20574 m (67500 ft.)	628575005437	24570046
4-pair, 24 AWG, CMR, Cat 5	White	762 m (2500 ft.)	14N Spool	27 spools/pallet	20574 m (67500 ft.)	628575005581	24570062
4-pair, 24 AWG, CMR, Cat 5	Yellow	762 m (2500 ft.)	14N Spool	27 spools/pallet	20574 m (67500 ft.)	628575005741	24570079

6.9.4-B IBDNFlex Plus Cable

DETAIL	COLOR	LENGTH	PACKAGING	NO OF PACKS PER PALLET	TOTAL PER PALLET	UPC	ORDERING NUMBER
4-pair, 24 AWG, CMP, Cat 5	Blue	305 m (1000 ft.)	Box	45 boxes/pallet	13725 m (45000 ft.)	628575009930	24570750
4-pair, 24 AWG, CMP, Cat 5	White	305 m (1000 ft.)	Box	45 boxes/pallet	13725 m (45000 ft.)	628575009497	24570700
4-pair, 24 AWG, CMP, Cat 5	Yellow	305 m (1000 ft.)	Box	45 boxes/pallet	13725 m (45000 ft.)	628575010097	24570766
4-pair, 24 AWG, CMP, Cat 5	Blue	305 m (1000 ft.)	11N Spool	60 spools/pallet	18300 m (60000 ft.)	628575009947	24570751
4-pair, 24 AWG, CMP, Cat 5	White	305 m (1000 ft.)	11N Spool	60 spools/pallet	18300 m (60000 ft.)	628575009763	24570733
4-pair, 24 AWG, CMP, Cat 5	Yellow	305 m (1000 ft.)	11N Spool	60 spools/pallet	18300 m (60000 ft.)	628575009060	24570589
4-pair, 24 AWG, CMP, Cat 5	Blue	762 m (2500 ft.)	14N Spool	27 spools/pallet	20574 m (67500 ft.)	628575009886	24570745
4-pair, 24 AWG, CMP, Cat 5	White	762 m (2500 ft.)	14N Spool	27 spools/pallet	20574 m (67500 ft.)	628575009787	24570735
4-pair, 24 AWG, CMP, Cat 5	Yellow	762 m (2500 ft.)	14N Spool	27 spools/pallet	20574 m (67500 ft.)	628575010196	24570776

6.9.4-C IBDN Plus LSOH Cable

DETAIL	COLOR	LENGTH	PACKAGING	NO OF PACKS PER PALLET	TOTAL PER PALLET	UPC	ORDERING NUMBER
4-pair, 24 AWG, LSOH, Cat 5	Purple	305 m (1000 ft.)	Box	45 boxes/pallet	13725 m (45000 ft.)	628575006274	24570152