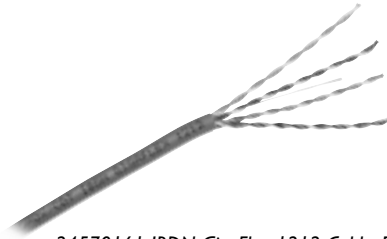


COMPLEMENTARY  
PRODUCTSIBDN GigaFlex  
1212 Cable  
6.9.3-AIBDN GigaFlex  
1213 Cable  
6.9.3-BIBDN GigaFlex  
1224 Cable  
6.9.3-CIBDN Copper  
SolutionsLabels  
LabelFlex  
6.4.1-APatch Panels  
PS5E HD Patch Panels  
6.5.2Workstation Outlets  
GigaFlex PS5E Modules  
6.7.2EZ-MDVO PS5E Modules  
6.7.4-APS5E DVO Outlets  
6.7.22

## 6.9.3-A IBDN GigaFlex 1212 Cable

## 6.9.3-B IBDN GigaFlex 1213 Cable

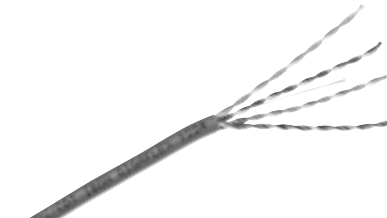
## 6.9.3-C IBDN GigaFlex 1224 Cable



24570161 IBDN GigaFlex 1212 Cable, Riser



24570810 IBDN GigaFlex 1213 Cable, Plenum



24570157 IBDN GigaFlex 1224 Cable, LSOH

## DESCRIPTION

IBDN GigaFlex 1200 Cable Series consists of 4-pair UTP cables that exceeds the Category 5e requirements per the ANSI/TIA/EIA-568-A-5 and ANSI/TIA/EIA-568-B standard. When used as the horizontal cable in the IBDN System 1200, the channel provides 160 MHz of bandwidth.

## FEATURES &amp; BENEFITS

- Minimized skew for parallel transmission protocols
- High flexibility design eases cable installation and dressing
- Size minimized for compactness of installations
- Materials selected to support 25 year performance warranties
- Descending distance marking for cable length reduces waste
- Matching tip and ring color code for ease of installation.

## APPLICATIONS

IBDN GigaFlex 1200 Cable Series is intended to be used for horizontal cable installations of high speed Local Area Networks (LANs) for transmission speeds of up to 1.2 Gb/s. Specific application protocols supported include:

- 1000BASE-T Ethernet (1000 Mb/s)
- 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 (ANSI/IEEE 802.3 10BASE-T)
- 4 Mb/s and 16 Mb/s Token Ring (ANSI/IEEE 802.5)
- Broadband video (77 channels at 550 MHz).

## 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 GigaFlex 1212 Cable, 4-pair 24 AWG, <b>CMR</b>	4.72 mm (0.186 in.)	21.12 mm (0.832 in.)	3.6 kg/100 m (24.0 lb/kft)
IBDN GigaFlex 1213 Cable, 4-pair 24 AWG, <b>CMP</b>	4.78 mm (0.188 in.)	19.10 mm (0.752 in.)	3.2 kg/100 m (22.0 lb/kft)
IBDN GigaFlex 1224 Cable, 4-pair 24 AWG, <b>LSOH</b>	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: 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.

**Transmission Characteristics**

- Values up to 200 MHz are minimum guaranteed values
- Values above 200 MHz are for information only
- DC Resistance @ 20°C, max.: 9.38  $\Omega$ /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
- Input Impedance: 100  $\pm$  15  $\Omega$  from 1 MHz to 100 MHz ; 100  $\pm$  22  $\Omega$  from 101 MHz to 200 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.)	ELFEXT (dB) (min.)	PSELFEXT (dB) (min.)	RETURN LOSS (dB) (min.)
0.772	1.8	71.0	69.0	69.2	67.2	66.0	63.0	—
1.0	2.0	69.3	67.3	67.3	65.3	63.8	60.8	20.0
4.0	4.0	60.3	58.3	56.3	54.3	51.7	48.7	23.0
8.0	5.7	55.8	53.8	50.1	48.1	45.7	42.7	24.5
10.0	6.3	54.3	52.3	48.0	46.0	43.8	40.8	25.0
16.0	8.1	51.3	49.3	43.2	41.2	39.7	36.7	25.0
20.0	9.1	49.8	47.8	40.7	38.7	37.7	34.7	25.0
25.0	10.2	48.3	46.3	38.1	36.1	35.8	32.8	24.3
31.25	11.5	46.9	44.9	35.4	33.4	33.9	30.9	23.6
62.5	16.7	42.4	40.4	25.7	23.7	27.8	24.8	21.5
100.0	21.6	39.3	37.3	17.7	15.7	23.8	20.8	20.1
200.0	31.9	34.8	32.8	2.9	0.9	17.7	14.7	18.0
250.0	36.3	33.3	31.3	-2.9	-4.9	15.8	12.8	17.3
300.0	40.3	32.2	30.2	-8.2	-10.2	14.2	11.2	16.8
350.0	44.2	31.2	29.2	-13.0	-15.0	12.9	9.9	16.3

**QUALIFICATIONS**

- Meets or exceeds the Category 5e requirements per ANSI/TIA/EIA-568-A.5 or ANSI/TIA/EIA-568-B
- Exceeds the Category 5 requirements per ANSI/TIA/EIA-568-A, CSA T529-95 and ISO/IEC 11801-1995
- Exceeds the Category 5 requirements per NEMA Standard WC 63.1-1996
- 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 GigaFlex 1200 Cable is given below. Alternative colors and packaging are also available, subject to Minimum Order Quantities. Please check with customer service for availability.

**6.9.3-A IBDN GigaFlex 1212 Cable**

DETAIL	COLOR	LENGTH	PACKAGING	NO OF PACKS PER PALLET	TOTAL PER PALLET	UPC	ORDERING NUMBER
4-pair, 24 AWG, CMR, Cat 5e	Blue	305 m (1000 ft.)	Box	45 boxes/pallet	13725 m (45000 ft.)	628575006342	24570161
4-pair, 24 AWG, CMR, Cat 5e	White	305 m (1000 ft.)	Box	45 boxes/pallet	13725 m (45000 ft.)	628575006397	24570166
4-pair, 24 AWG, CMR, Cat 5e	Yellow	305 m (1000 ft.)	Box	45 boxes/pallet	13725 m (45000 ft.)	628575008346	24570464
4-pair, 24 AWG, CMR, Cat 5e	Blue	305 m (1000 ft.)	11N Spool	60 spools/pallet	18300 m (60000 ft.)	628575008223	24570452
4-pair, 24 AWG, CMR, Cat 5e	White	305 m (1000 ft.)	11N Spool	60 spools/pallet	18300 m (60000 ft.)	628575008308	24570460
4-pair, 24 AWG, CMR, Cat 5e	Yellow	305 m (1000 ft.)	11N Spool	60 spools/pallet	18300 m (60000 ft.)	628575008322	24570462
4-pair, 24 AWG, CMR, Cat 5e	Blue	762 m (2500 ft.)	14N Spool	27 spools/pallet	20574 m (67500 ft.)	628575008391	24570469
4-pair, 24 AWG, CMR, Cat 5e	White	762 m (2500 ft.)	14N Spool	27 spools/pallet	20574 m (67500 ft.)	628575008407	24570470
4-pair, 24 AWG, CMR, Cat 5e	Yellow	762 m (2500 ft.)	14N Spool	27 spools/pallet	20574 m (67500 ft.)	628575008414	24570471

**6.9.3-B IBDN GigaFlex 1213 Cable**

DETAIL	COLOR	LENGTH	PACKAGING	NO OF PACKS PER PALLET	TOTAL PER PALLET	UPC	ORDERING NUMBER
4-pair, 24 AWG, CMP, Cat 5e	Blue	305 m (1000 ft.)	Box	45 boxes/pallet	13725 m (45000 ft.)	628575010424	24570800
4-pair, 24 AWG, CMP, Cat 5e	White	305 m (1000 ft.)	Box	45 boxes/pallet	13725 m (45000 ft.)	628575010509	24570810
4-pair, 24 AWG, CMP, Cat 5e	Yellow	305 m (1000 ft.)	Box	45 boxes/pallet	13725 m (45000 ft.)	628575010714	24570835
4-pair, 24 AWG, CMP, Cat 5e	Blue	305 m (1000 ft.)	11N Spool	60 spools/pallet	18300 m (60000 ft.)	628575010523	24570812
4-pair, 24 AWG, CMP, Cat 5e	White	305 m (1000 ft.)	11N Spool	60 spools/pallet	18300 m (60000 ft.)	628575010486	24570808
4-pair, 24 AWG, CMP, Cat 5e	Yellow	305 m (1000 ft.)	11N Spool	60 spools/pallet	18300 m (60000 ft.)	628575011353	24570927
4-pair, 24 AWG, CMP, Cat 5e	Blue	762 m (2500 ft.)	14N Spool	27 spools/pallet	20574 m (67500 ft.)	628575011513	24570944
4-pair, 24 AWG, CMP, Cat 5e	White	762 m (2500 ft.)	14N Spool	27 spools/pallet	20574 m (67500 ft.)	628575011490	24570942
4-pair, 24 AWG, CMP, Cat 5e	Yellow	762 m (2500 ft.)	14N Spool	27 spools/pallet	20574 m (67500 ft.)	628575011476	24570940

**6.9.3-C IBDN GigaFlex 1224 Cable**

DETAIL	COLOR	LENGTH	PACKAGING	NO OF PACKS PER PALLET	TOTAL PER PALLET	UPC	ORDERING NUMBER
4-pair, 24 AWG, LSOH, Cat 5e	Purple	305 m (1000 ft.)	Box	45 boxes/pallet	13725 m (45000 ft.)	628575006304	24570157