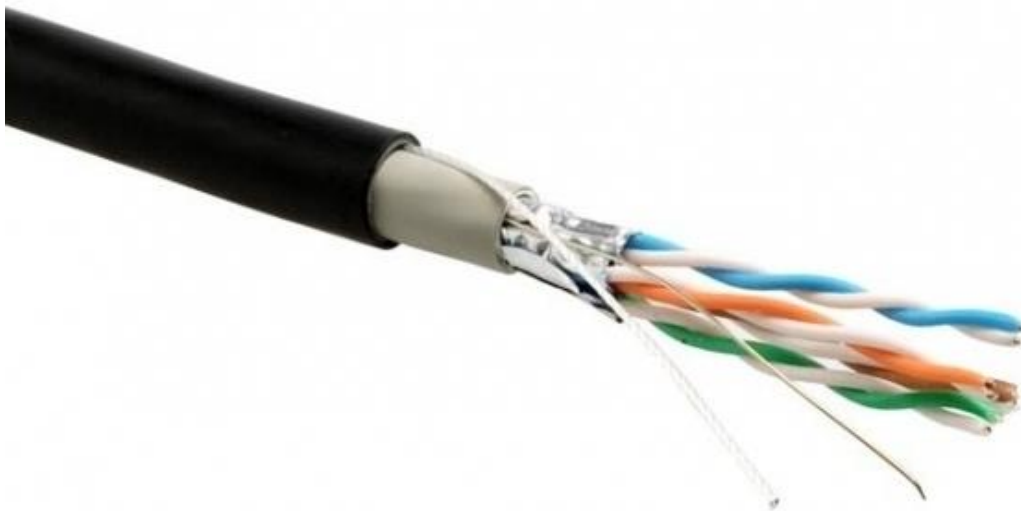


Specification for:
BC FTP – 4x2x24# - Cat5e Outdoor UV
102001



1. Application:

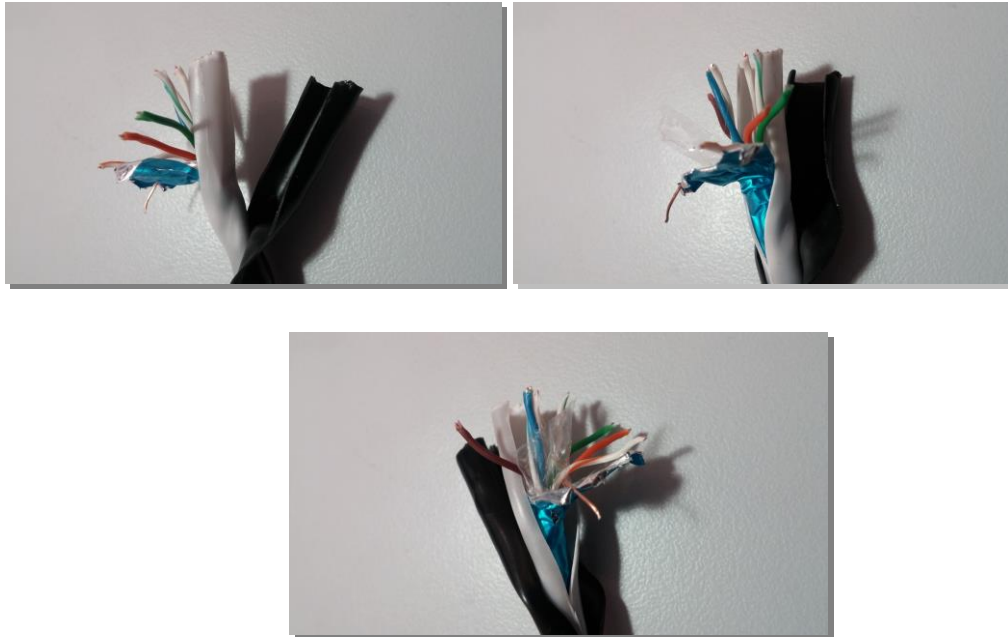
- a. Horizontal Data cable Cat 5e Per ISO/IEC 11801 and IEC-61156-5 Ed. 2 (2009)
- b. IEEE 802.3 (Ethernet) 10Base-T, 100Base-T , 1000Base-T.
- c. Flame resistant PVC jacket.

2. Standards:

- a. EIA/TIA-568-C.2
- b. ISO/IEC 11801 2nd ed. ; IEC 61156-5 Ed. 2 (2009)
- c. EN 50173 , EN 50288-3-1
- d. IEC 60332-1

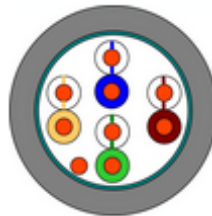
3. Construction:

Item	Description
Conductor	Solid Bare Copper, 24 AWG
Insulation	Polyethylene, diameter 1.0 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Overall screen	Al-polyester foil
Rip Cord	Yes, strong
Drain wire	Tinned copper 26 AWG
Inner Jacket	PVC Light Gray RAL 7035 Average Thickness: OD 0.75 mm with water resistance
Outer Jacket	PVC BLACK RAL 9005 UV Resistant Outer Jacket Material (PVC-UV, UV Stabilized). Needs to resist water, sun and outdoor conditions in full exposure. Designed For Outdoor Above- Ground or Conduit Duct applications Average Thickness: OD 1mm with water resistance Outer Diameter (±0.10mm) 6.0mm



4. Conductors colors:

- a. Pair 1: white+blue , blue
- b. Pair 2: white+orange , orange
- c. Pair 3: white+green , green
- d. Pair 4: white+brown , brown



5. Mechanical properties:

Minimum bending radius	Installation	8 x D
	Installed	4 x D
Tensile force		20 N/copper pair
Temperature Range	During operation	0° to 50°C
	Storage	-20° to 60°C

6. Electrical properties:

DC Loop resistance	$\leq 190 \Omega/\text{km}$
Resistance unbalance	$\leq 2\%$
Insulation resistance (500 V)	$\geq 2000 \text{ M}\Omega \cdot \text{km}$
Nominal mutual capacitance @ 800 Hz	48 nF/km
Capacitance unbalance (pair to ground)	$\leq 1600 \text{ pF/km}$
Characteristic impedance: 1-100 MHz	$100 \pm 15 \Omega$
Nominal velocity of propagation	Approx. 67%
Nominal propagation delay @ 4MHz	560 ns/100m
Delay skew	45 ns/100m
Test voltage (DC, 1 min), conductor - conductor	1000 V

7. Transmission characteristics @ 20 C°:

Freq.	Attenuation	NEXT	PS-NEXT	ACR	PS-ACR	ELFEXT	PS-ELFEXT	RL
(MHz)	(dB/100m)	(dB)				(dB/100m)		(dB)
1	2.1	65	62	63	60	64	61	20
4	4.1	56	53	52	49	52	49	23
10	6.5	50	47	43	40	44	41	25
16	8.3	47	44	39	36	40	37	25
20	9.3	46	43	37	34	38	35	25
31.2	11.7	43	40	31	28	34	31	24
62.5	17.0	38	35	21	18	28	25	22
100	22.0	35	32	13	10	24	21	20

