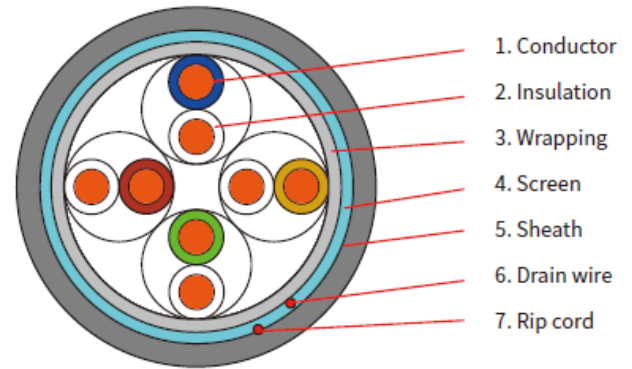


Ethernet Cable FTP CAT5E BC PE(Outdoor)

The **Optowire** twisted pair cable is designed for creating general-purpose local networks, home networks, small business networks, computer networks, data networks, and highly specialized networks. Used to connect security system devices, telephony, Internet, digital television, etc. The cable is intended for installation outside buildings. Belongs to category 5e: designed for operating frequencies from 1 to 100 MHz.



Construction:

1. Conductor (mm)	Solid bare copper conductor						
2. Insulation (mm)	HDPE						
2.1. Color Code	White-Blue(Stripe)/Blue White-Orange(Stripe)/Orange White-Green(Stripe)/Green White-Brown(Stripe)/Brown						
3. Wrapping (mm)	PET tape						
4. Screen	Al foil						
5. Sheath	PE						
6. Drain Wire	Tinned copper						
7. Rip Cord	Yes						
Jacket							
Nom.thickness (± 0.01 mm)	0.46 (25AWG)	0.48 (24AWG)	0.50 (24AWG)	0.51 (24AWG)	0.53 (24AWG)	0.57 (23AWG)	
Cable OD (± 0.05 mm)	6.0±0.3						
Color	Black						

Technical Data:

Applications	10Base-T4, 100Base-TX, 100Base-VG-ANYLAN, 155MbpsATM, 622MbpsATM, 1000Base-T
Storage Temperature	-5°C~+50°C
Operating Temperature	20°C~+70°C
Tensile Strength. Max	80N
Minimum Bending Radius	10D. D is external cable diameter
Voltage Rating	60V rms to meet the strict flame retardancy and environmental requirements in Europe and USA
Maximum DC Resistance	9.5Ω/100m (24AWG)
Maximum Resistance Unbalance	5%
Maximum Mutual Capacitance	5.6nF/100m
Working Frequency	1-100MHz
Characteristic Impedance	100±15 Ω (1-100MHz)
Nominal Velocity of Propagation (NVP)	≥65%

Specification Parameters:

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	Delay (ns/100m)	Return Loss (dB)
1	2.0	74.3	72.3	67.8	64.8	570.0	20.0
4	3.8	65.3	63.3	55.8	52.8	552.0	23.0
8	5.6	60.8	58.8	49.7	46.7	546.7	24.5
10	6	59.3	57.3	47.8	44.8	545.4	25.0
16	7.6	56.2	54.2	43.7	40.7	543.0	25.0
20	8.5	54.8	52.8	41.8	38.8	542.0	25.0
25	9.5	53.3	51.3	39.8	36.8	541.2	24.3
31.25	10.7	51.9	49.9	37.9	34.9	540.4	23.6
62.5	15.4	47.4	45.4	31.9	28.9	538.6	21.5
100	19.8	44.3	42.3	27.8	24.8	537.6	20.1

