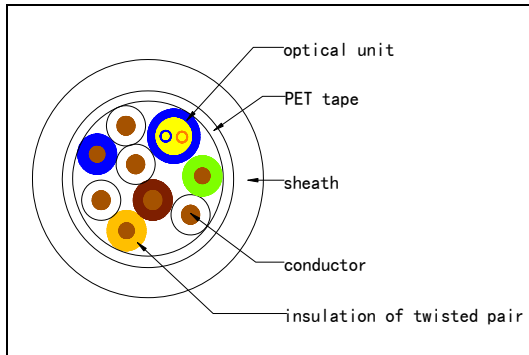


OptiC@t5e complex Cable - 4x 2 x 0.5+2SM BBXS

Cable Design



- not to scale -

Cat5e part:

- **Conductor:** Bare Annealed copper wire, \varnothing 0.50 mm
- **Insulation:** PE Insulation
- **Core Color:** white/blue; white/orange; white/green; white/brown.

Optical Unit:

- **Tight buffer:** Each fibre is coated with LSZH.
- **Strength Member:** Aramid yarn.
- **Sheath:** Blue LSZH.

After core:

- **Core wrapping:** polyester tape.
- **Outer sheath:** Pebble white LSZH.

Technical data

Design		OptiC@t5e complex Cable - 4x 2 x 0.5+2SM BBXS		
Cat5 part	Copper wire Diameter	mm	0.50 mm	
	Insulation thickness	mm	Nominal 0.21 mm	
	Insulation Diameter	mm	\varnothing 0.92 \pm 0.05 mm	
	Twist pitch	mm	\leq 25	
Optical Unit	Buffer diameter	mm	\varnothing 0.9 \pm 0.05 mm	
	Sheath diameter	mm	\varnothing 2.5 \pm 0.1 mm	
After core	Sheath Thickness		Nominal 0.6mm	
	Cable diameter		\varnothing 6.1 \pm 0.2 mm	
Cable weight approximate		Kg/km	40	
Min. bending radius		mm	Without Tension 10 x Cable- \varnothing	Under Maximum Tension 15 x Cable- \varnothing
Temperature range		$^{\circ}$ C	Installation -15 -> +55;	Transport. & Storage -40 -> +70 ; Operation -30 -> +70
Flame resistance			IEC60332-1	

Electrical Characteristics

Conductor DC resistance (20 $^{\circ}$ C)	\leq 95 Ω /km
Resistance unbalance	\leq 2%
Mean Characteristic Impedance	100 Ω \pm 15 Ω (100MHz)
Mutual capacitance	\leq 56 nF/Km
Insulation resistance (20 \pm 5 $^{\circ}$ C, 500 VDC)	\geq 5000M Ω .km
Propagation Delay	\leq 534+36/sqrt(f) ns/100m
Delay skew	\leq 45 ns/100m
Velocity propagation	approx 67%
Dielectric Strength (1.5kVdc)	1KV DC 1min(core-core)

Optical Characteristics

See the attached cabled optical fibre data sheet C24 for G657A2 BBXS.

Transmission Characteristics						
frequency	Attenuation	NEXT	PS-NEXT (only for ≥4pairs)	ELFEXT	PS-ELFEXT (only for ≥4pairs)	Return loss
MHz	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	dB
	max	min	min	min	min	min
1	2.1	65	62	64	61	20
4	4.1	56	53	52	49	23
10	6.5	50	47	44	41	25
16	8.2	47	44	41	37	25
20	9.2	46	43	38	35	25
31.25	11.7	43	40	34	31	23.5
62.5	17.0	38	35	28	25	21.5
100	22.0	35	32	24	21	20.0

Identification

Cat5e Part :

Core Color: white/blue; white/orange; white/green; white/brown.

Optical Unit :

Buffer Colours

No.	1	2
Colour	blue	orange

Optical Sheath colour: blue.

Hybrid cable Sheath Colour: Pebble white.

Sheath Marking:

The outer sheath is marked in 1 meter intervals as follows:

PRYSMIAN <YEAR> OPTIC@T5E 4P + 2SM BBXS xxxxM

Logistic

Packing:

Plastic or Plywood reels with carton box protection.

Delivery Lengths:

Standard delivery length is 305m/reel box.

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