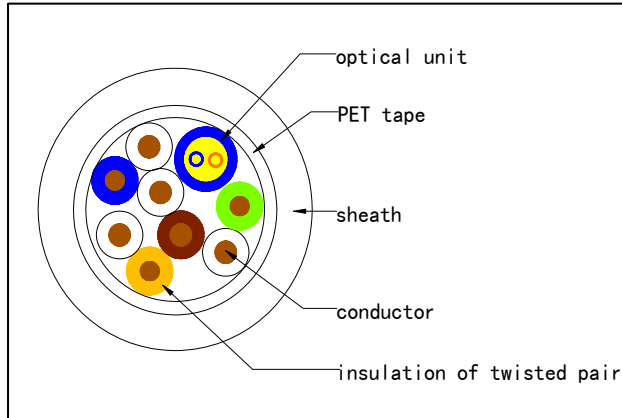


**OptiC@t5e complex Cable - 4x 2 x 0.5+2SM BBXS**



**Cable cross-section**

**Cable construction**

Cat5 part:		
Conductor	Bare Annealed copper wire	∅ 0.50 mm
Insulation	PE Insulation	
Insulation thickness	Nominal	0.21 mm
Insulation Diameter	∅ 0.92 ± 0.05 mm	
Core Color	white/blue; white/orange; white/green; white/brown	
Twist pitch	≤25mm	

Optical part:		
Tight buffer fibers no	2 fibers (blue, orange)	
Sheath	LSZH	
Sheath color	blue	
Sheath diameter	∅ 2.5± 0.1 mm	
Wrapping	Overall wrapped with PET Tape.	
Overall Sheath Material	LSZH	
Sheath Thickness	Nominal	0.6mm
Color	Pebble white	
Cable diameter	∅ 6.1±0.2 mm	
Sheath marking	PRYSMIAN YEAR UTP CAT5E 4P + 2SM BBXS XXXXM	

## Electrical Properties

Conductor DC resistance (20 °C)	≤ 95 Ω/km
Resistance unbalance	≤2%
Mean Characteristic Impedance	100 Ω ± 15 Ω(100MHz)
Mutual capacitance	≤ 56 nF/Km
Insulation resistance (20 ± 5 °C, 500 V <sub>DC</sub> )	≥ 5000MΩ .km
Propagation Delay	≤ 534+36/sqrt(f) ns/100m
Delay skew	≤ 45 ns/100m
Velocity propagation	approx 67%
Dielectric Strength (1.5kVdc)	1KV DC 1min(core-core)

## Transmission properties

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

Flame retardant : IEC60332-1

Package and weight

✚ package: 1000m±50m/drum

✚ weight(ref):40KG/KM

bending radius

bending radius	Without load	10D(D:cable diameter)
	With load	15D(D:cable diameter)

Temperature range

During operation	During operation	-30°C-+70°C
	During storage	-40°C-+70°C
	During installation	-15°C-+55°C

## REVISION SHEET

Issue No.	Date	
01	13 <sup>th</sup> Aug. 2013	First Issue