



STRUCTURED
CABLING PARTNER

Category 6A / F/FTP 4 Pair 23AWG Cable

OPTIPLUS Category 6A F/FTP (Foil Twisted Pair-Overall Foil Shield)

4 Pair 23AWG cables are applied in structured cabling system of class EA for high speed data and voice transmission, at primary, secondary (vertical) and tertiary (horizontal) level. And standardized for application up to 500MHz. CAT 6A ISDN, 10BASE-T Ethernet 10Mb/s, 100BASE-T Ethernet 100Mb/s, 1000BASE-T Gigabit Ethernet 1000Mb/s, 10GBASE-T 10 Gigabit Ethernet 10Gb/s, Token ring 16MB, FDDI, ATM. Length of this cable in 10GBASE-T networks is restricted at maximum 100m.



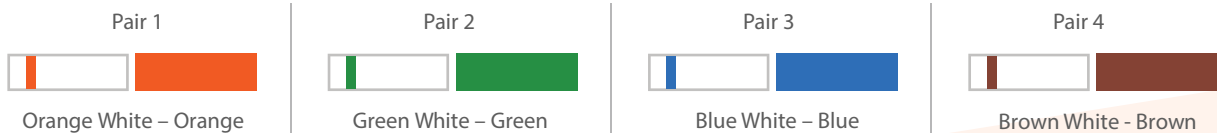
Standards

- ANSI/TIA/EIA 568 C.2CAT 6A
- ISO/IEC 11801 Class EA
- ISO/IEC 61156-5
- IEC 60332-1; IEC 60754-2; IEC 61034
- EN 50173-1; EN 50288-5-1
- EN 50290-2-27

Key Features:

- Tested up to 500MHz
- Suitable for 10GBASE-T 10 Gigabit Ethernet Applications
- Individual and overall foil screen
- Lightweight, Compact but robust Design
- Standard packing will be 305 meter easy pull out box

Colour Code:



Cable Construction:

Conductor Material	23 AWG solid Bare Copper
Conductor Construction	Solid
Conductor Diameter	0.57mm
Insulation Material	Foamed POLYETHYLENE
Insulation Diameter	1.39mm± 0.03mm
Foil	Aluminum Laminated Plastic Foil
Pairs Count	4 nos
Jacket Thickness (mm)	0.60mm ± 0.05mm
Jacket Material	PVC, Low Smoke Zero Halogen (LSZH), Plenum

Electrical and Mechanical Characteristics:

- Impedance – 100 Ω ± 25%
- Frequency - 1 MHz to 500 MHz
- DC Resistance - 82 Ω /Km
- Capacitance P-G - 330 pF/100m nom
- Propagation Delay Skew - 25 ns/100m Max
- Bend Radius - 59.7mm
- Operating Temperature -20°C ~ 70°C
- Installation Temperature - 0°C to 50°C
- Maximum Tensile Strength - 100 N

Transmission Characteristics:

Freq. (MHz)	Attenuation (dB) max.	NEXT (dB) min.	PS NEXT (dB) min.	ACR dB/ 100m Min	PS-ACR dB/ 100m Min	ELFEXT (dB) min.	PSELFEXT (dB) min.	Return Loss (dB) min.
1	1.8	100	97	98	95	105	105	-
4	3.4	100	97	97	94	105	102	27
10	5.4	100	97	95	92	97	94	30
20	7.7	100	97	92	89	91	88	30
31.25	9.6	100	97	90	87	87	84	30
100	17.4	100	97	83	80	77	74	30
155.5	21.9	94	91	72	69	73	70	26
200	25	92	89	67	64	71	68	25
250	28.1	90	87	62	59	69	66	24
300	30.9	89	86	58	55	67	64	24
500	44.8	85	82	40	37	61	58	22

Ordering Information:

PART NUMBER	DESCRIPTION	LENGTH
OP-C6A110323/PVC	Category6A F/FTP 4 Pair Cable PVC	305 mtr
OP-C6A110323/LSZH	Category6A F/FTP 4 Pair Cable LSZH	305 mtr



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