

Cat. 5e 4x2x24/1 AWG F/UTP Outdoor PVC/PVC UL (1581 VW 1) (UL) LISTED E211498

Part Number: **8393204101**

Applications:

Outdoor installations in harsh environments, Outdoor installations, Digital distribution frames in transmission stations, Fixed or portable installations, Class 1 Division 2

General Construction:

Custom made cable designed specially for wireless systems, meeting the requirements of Cat. 5e per ANSI/TIA/EIA-568-B.2 and IEC 61156-5. The cable contains 4 twisted pairs, cabled, foil-tape shielded and jacketed with two special black UV resistant, flame retardant PVC compounds for direct outdoor use in harsh electrical environments. The diameter of the inner core complies with RJ45 connecting hardware allowing direct connection to equipment without patch cords.

Outer Jacket Material:

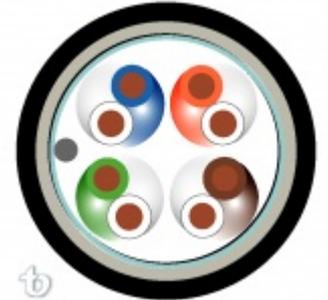
UV resistant FR-PVC

Outer Diameter:

7.9 mm nom.

Weight:

68.0 kg/km



Design & Materials

Conductor Material:	Annealed Bare Copper
Conductor Size:	24 AWG
Conductor Size:	0.52 mm
Insulation Material:	Solid PO
Insulation O.D.:	1.07 mm nom.
Color Code:	Per TIA/EIA 568-B
Overall Shield Design:	100% Coverage
Overall Shield Material:	Aluminum/Polyester Foil
Overall Foil Shield:	Yes
Overall Drain-wire Material:	Annealed Tinned Copper
Overall Drain-wire size:	24 AWG
Overall Drain-wire Construction:	Stranded
Inner Jacket Material:	UV resistant FR-PVC
Inner Jacket Diameter nom.:	6.1 mm nom
Inner Jacket Color:	Black
Total number of conductors:	8
Outer Jacket Color:	Black
Marking:	Per request, Teldor Standard

Standards

Applicable Standards:	IEC 61156-5, IEC 61156, IEEE 802.3at (PoE+), IEEE 802.3af (PoE), IEEE 802.3bt (4PPoE), TIA/EIA-568, RoHS 3 2015/863/EU
Flammability Rating:	IEC 60332-1, UL 1581 VW-1

Electrical Properties:

Cat. 5e Horizontal Cables*

Freq. MHz	Attenuation dB/100m 20°C		PS NEXT Loss dB		NEXT Loss dB		RL dB		PS ELFEXT dB		ELFEXT dB	
	Typical Value	Cat. 5e	Typical Value	Cat. 5e	Typical Value	Cat. 5e	Typical Value	Cat. 5e	Typical Value	Cat. 5e	Typical Value	Cat. 5e
1	2.0	2.1	68.3	62.3	71.3	65.3	22.0	20.0	64.0	61.0	67.0	64.0
4	3.9	4.1	59.3	53.3	62.3	56.3	25.0	23.0	52.0	49.0	55.0	52.0
10	6.2	6.5	53.3	47.3	56.3	50.3	28.0	25.0	44.0	41.0	47.0	44.0
20	8.8	9.3	48.8	42.8	51.8	45.8	28.0	25.0	38.0	35.0	41.0	38.0
30	10.9	11.5	46.1	40.1	49.1	43.1	27.0	23.8	35.0	31.5	38.0	34.5
60	15.8	16.6	41.6	35.6	44.6	38.6	24.0	21.1	28.0	25.4	31.0	28.4
100	21.0	22.0	38.3	32.3	41.3	35.3	22.0	18.8	24.0	21.0	27.0	24.0

*Supplied cables meet minimum Cat. 5e transmission requirements of **IEC 61156-5 Ed. 2** and **ANSI/EIA/TIA 568-B.2**

Performance

Frequency Range:	1 - 100 MHz
Impedance:	100 Ω
Max. DC Resistance :	92 Ω/km@20°C
Max. Resistance Unbalance:	2 %
Capacitance:	52 pF/m
Capacitance Unbalance:	1.4 pF/m max.
L/R Ratio:	3.9 mH/Ω
Velocity of Propagation:	68 % nom.
Propagation Delay Skew:	35 ns/100m max.
Dielectric Strength:	700 V/minute
Dielectric Strength to Shield:	700 V/minute
Min. Insulation Resistance :	5 GΩ•km
Min. Bend Radius:	70 mm
Max. Pulling Tension:	12 kgF
Max. Operating Temperature:	+70 °C
Min. Operating Temperature:	-40 °C
UV Resistance:	Yes
Hydrocarbon Resistance:	Yes

Prepared By	Revised By	Version Num	Modified on
Amnon Azoolay	Eyal Stroumza	2.3	14-06-2022

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