

Cat. 7 4x2x26/7 AWG S/FTP Work Area CMR FR-PVC

Part Number: **992814R129**

Applications: Patch cord, Indoor use, portable installations, Work area cabling, High data rates, High bandwidth digital applications with low BER

General Construction: The cable contains 4 individually aluminum-foil shielded twisted pairs, cabled, overall shielded with tinned copper braid and jacketed. It conforms to IEC 61156-6, Cat. 5e, Cat. 6, Cat.6_A and Cat. 7 requirements for shielded pairs and is compatible with RJ-45 modular plugs.

Detailed Schematic:

Outer Jacket Material: FR-PVC
Outer Diameter: 6.4 mm nom.
Weight: 45 kg/km



Design & Materials

Conductor Material:	Annealed Bare Copper
Conductor Size:	26 AWG
Conductor Construction:	7x0.16 mm
Insulation Material:	SFS PO
Insulation O.D.:	0.98 ± 0.02 mm nom.
Conductor unit identification:	Solid Color
Color Code:	Per TIA/EIA 568-B
Ind. Shield Material:	Aluminum/Polyester Foil
Ind. Shield Design:	Helically applied aluminum foil, 100% coverage
Conductor unit lay-up:	Pairs
Overall Braid Shield:	Yes
Overall Braid Material:	Annealed Tinned Copper
Braid Coverage:	50 % nom.
Total number of conductors:	8
Outer Diameter:	6.7 mm max.
Outer Jacket Color:	Light Gray
Marking:	Per request, Teldor Standard

Standards

Applicable Standards:	IEC 61156, ISO/IEC 11801-1, RoHS 3 2015/863/EU
Flammability Rating:	IEC 60332-1, IEC 60332-3 , UL 1581 VW-1, UL CMR

Electrical Properties:

Freq. MHz	Attenuation dB/100m 20°C		PS NEXT Loss dB		NEXT Loss dB		RL dB		PS ANEXT dB		PS ELFEXT dB		ELFEXT dB	
	Typical Value	Cat. 7	Typical Value	Cat. 7	Typical Value	Cat. 7	Typical Value	Cat. 7	Typical Value	Cat. 7	Typical Value	Cat. 7	Typical Value	Cat. 7
1	2.9	3.0	105.0	99.4	108.0	102.4	22.0	20.0	68.0	N/A	95.0	75.0	98.0	78.0
4	5.4	5.6	98.0	90.4	101.0	93.4	25.0	23.0	68.0	N/A	90.0	75.0	93.0	78.0
10	8.5	8.8	95.0	84.4	98.0	87.4	28.0	25.0	68.0	N/A	86.0	71.0	89.0	74.0
20	12.1	12.4	90.0	80.0	93.0	83.0	28.0	25.0	68.0	N/A	80.0	65.0	83.0	68.0
30	14.8	15.3	85.0	77.2	88.0	80.2	27.0	23.8	68.0	N/A	76.0	61.5	79.0	64.5
100	27.7	28.5	80.0	69.4	83.0	72.4	24.0	21.1	68.0	N/A	66.0	51.0	69.0	54.0
150	34.3	35.3	78.0	66.7	81.0	69.7	22.0	18.8	65.0	N/A	63.0	47.5	66.0	50.5
200	40.0	41.2	78.0	65.0	81.0	68.0	21.0	18.0	65.0	N/A	60.0	45.0	63.0	48.0
250	45.1	46.5	75.0	63.4	78.0	66.4	20.0	17.3	62.0	N/A	58.0	43.0	61.0	46.0
300	49.7	51.3	75.0	62.2	78.0	65.2	19.0	17.3	62.0	N/A	52.0	41.5	55.0	44.5
400	58.2	60.0	70.0	60.4	73.0	63.4	19.0	17.3	62.0	N/A	49.0	38.9	52.0	41.9
500	65.8	67.9	70.0	58.9	73.0	61.9	19.0	17.3	62.0	N/A	47.0	37.0	50.0	40.0
600	72.9	75.1	70.0	57.7	73.0	60.7	19.0	17.3	62.0	N/A	45.0	35.4	48.0	38.4

Performance

Frequency Range:	1 - 600 MHz
Transfer Impedance:	Grade 1
Coupling Attenuation:	Type I
DC Resistance:	145 Ω/km nom.
Max. Resistance Unbalance:	2 %
Capacitance Unbalance:	1.2 pF/m max.
Velocity of Propagation:	78 % nom.
Propagation Delay Skew:	20 ns/100m max.
Dielectric Strength:	500 V/minute
Dielectric Strength to Shield:	500 V/minute
Min. Insulation Resistance :	5 GΩ•km
Max. Operating Temperature:	+75 °C
Min. Operating Temperature:	-30 °C

Prepared By	Revised By	Version Num	Modified on
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