

5254ARPE

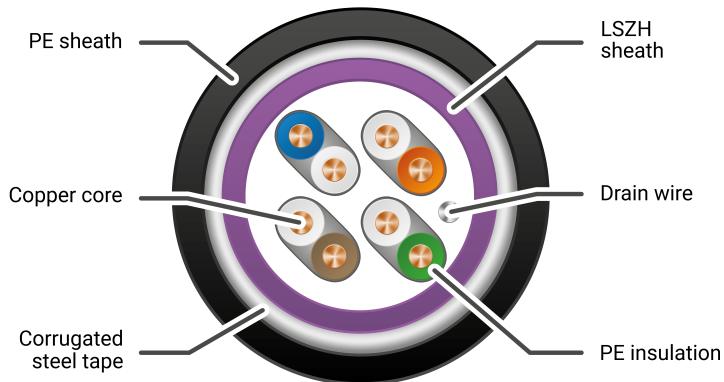
CAT6A U/FTP 1x4P - 525 MHz -

Armoured cable PE Fca Drum of 500m



DESCRIPTION

The 5254ARPE cable is used in shielded cabling solutions for specific CAT6A applications. Its steel armour and PE outer sheath allow the cable to be used for direct-burial links or in environments requiring a high degree of protection against rodents. Its performance exceeds the limits imposed by CAT6A cabling standards up to 525 MHz, thanks to an adapted construction and U/FTP-type shielding.



ADVANTAGES

- Tested up to 525 MHz
- Armored cable excellent rodent protection
- Direct buried installation thanks to a high crush resistance



CONSTRUCTION & TECHNICAL PERFORMANCE

Product Type	525xARPEyyyy
Core gauge	AWG23
Assembly type	Pairs
Overall Armor	Armure Acier
Outer Sheath Material	PE
Color	Purple RAL 4001
Nom. diameter of the outer sheath (mm)	11.5
Ground drain presence	No
Shielding type	U/FTP
Insulation Color Code	Blue and White blue or White – Orange and White orange or White – Green and White green or White – Brown and White brown or White
Nominal insulation diameter (mm)	1,24

ELECTRICAL CHARACTERISTICS

Loop resistance	154
Minimum insulation resistance	> 5000 MΩ x km
Service Voltage (V)	<250Vdc
Linear electrical resistance (Ω/Km)	77
Mutual Capacity	< 45 pF
Capacity Imbalance	< 1600 pF/km

TRANSMISSION CHARACTERISTICS

Coupling attenuation (dB)	75
Delay skew	< 30
Unbalance resistance	< 2
Propagation speed (%)	78
Segregation Class	C
Performance Category	Category 6A
Data Transmission Standard	EIA/TIA 568-C.2 Cat6A, EN 50173-1: 2011 Classe Ea, ISO 11801 Ed.3 Classe Ea
Characteristic Impedance (Ohms)	100
Conductor/Shield Capacitance	1,6 nF/km
Conductor/Conductor Capacitance	45 nF/km

ENVIRONMENTAL CHARACTERISTIC

CPR classification	Fca
Fire behaviour	IEC 60332-1
RoHS Compliance	Compliant with the RoHS directive
Component Standard	IEC 61156-5 Cat6A

ADDITIONAL INFORMATION

Product Packaging	Drum
Weight (Kg)	0.04

TRANSMISSION PERFORMANCE

FREQUENCY (Mhz)	INSERTION LOSS (dB/100M)		NEXT (dB/100M)		PSNEXT (dB/100M)		ACR-F (dB/100M)		PSACR-F (dB/100M)		RETURN LOSS (dB/100M)	
	Standard	Typical Value	Standard	Typical Value	Standard	Typical Value	Standard	Typical Value	Standard	Typical Value	Standard	Typical Value
4	-3,8	-3,6	-66,3	-102,1	-63,3	-99,1	-56,0	-102,5	-53,0	-99,5	-23,0	-26,5
10	-5,9	-5,5	-60,3	-113,3	-57,3	-110,3	-48,0	-103,4	-45,0	-100,4	-25,0	-33,3
16	-7,5	-7,0	-57,2	-111,7	-54,2	-108,7	-43,9	-104,9	-40,9	-101,9	-25,0	-33,5
20	-8,4	-7,9	-55,8	-112,1	-52,8	-109,1	-42,0	-102,7	-39,0	-99,7	-25,0	-37,7
31,25	-10,5	-10,1	-52,9	-113,9	-49,9	-110,9	-38,1	-101,1	-35,1	-98,1	-23,6	-34,5
62,5	-15,0	-14,6	-50,9	-110,8	-47,9	-107,8	-32,1	-103,5	-29,1	-100,5	-21,5	-34,5
100	-19,1	-18,5	-48,4	-113,1	-45,4	-110,1	-28,0	-96,2	-25,0	-93,2	-20,1	-35,0
125	-21,5	-21,5	-45,3	-109,5	-42,3	-112,5	-26,1	-95,5	-23,1	-98,5	-19,4	-35,2
155	-24,1	-24,1	-42,4	-109,3	-39,4	-112,3	-24,2	-90,2	-21,2	-93,2	-18,8	-35,6
200	-27,6	-26,5	-40,8	-108,9	-37,8	-105,9	-22,0	-86,9	-19,0	-83,9	-18,0	-36,4
250	-31,1	-29,0	-39,3	-108,5	-36,3	-111,5	-20,0	-85,3	-17,0	-88,3	-17,3	-32,0
300	-34,3	-32,7	-38,1	-108,0	-35,1	-105,0	-18,5	-83,2	-15,5	-80,2	-17,3	-29,2
350	-37,2	-35,4	-37,1	-108,0	-34,1	-111,0	-17,1	-80,1	-14,1	-83,1	-17,3	-39,0
400	-40,1	-37,9	-36,3	-107,5	-33,3	-104,5	-16,0	-78,3	-13,0	-75,3	-17,3	-28,5
450	-42,7	-40,2	-35,5	-108,0	-32,5	-111,0	-14,9	-77,0	-11,9	-80,0	-17,3	-28,5
500	-45,3	-43,1	-34,8	-108,0	-31,8	-105,0	-14,0	-75,5	-11,0	-72,5	-17,3	-28,0
525	N/A	-44,0	N/A	-100,0	N/A	-97,0	N/A	-70,0	N/A	-67,0	N/A	-25,0