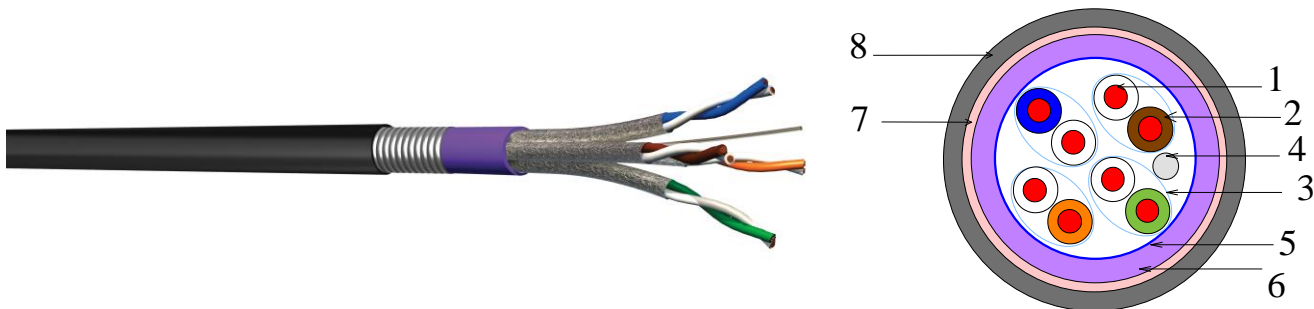


100 Ω U/FTP 4 pairs cable Category 6a – Armoured – PE Jacket



1. **Conductor** : Solid bare copper AWG23
2. **Insulation** : PE Skin-Foam-Skin
3. **Individual shield of pairs**: Aluminum/Polyester foil, coverage ≥ 100%
4. **Drain wire** : Solid tinned copper
5. **Synthetic foil**
6. **Inner jacket** : LSZH – RAL 4001
7. **Armour** : Corrugated steel tape
8. **Outer jacket** : Polyethylene – black RAL 9005

## Applications

PIMF (Pair In Metallic foil) data cable used in full shielded structured cabling system, for horizontal or vertical (Backbone) configuration.

Its performances exceed the limits required by current standards thanks to its excellent high-speed and error free transmission up to 525 Mhz. It constitutes an investment for the future network applications

Protected with a corrugated steel tape, the cable is rodent resistant and can be used in extreme condition for compression load. This cable is suitable for outdoor use, its jacket is protected against moisture, UV and ozone

This cable can transmit :

- ISDN - RNIS
- TOKEN RING 4/16 Mbits
- 100 VG-AnyLAN
- TP-PMD/TP-DDI
- ATM 155, 622 Mbits/s and 1,2Gbits
- ETHERNET 10 Base T
- ETHERNET 100 Base Tx, 100 Base T4
- ETHERNET 1000 Base T – GIGABIT Ethernet
- IEEE 802.3 af – PoE (Power Over Ethernet) and DRAFT 4.2 IEEE 802.3 at - future PoE+
- 10 GIGABIT ETHERNET (Up to 100 m)

## Standards

<b>CABLE</b>	IEC 61156-5 CAT6A
<b>SYSTEME</b>	ISO/IEC 11801 CLASS Ea EN 50173-1 CLASS Ea TIA 568-C.2 CAT6A

## REF : 525xARPE

100 Ω U/FTP 4 pairs cable Category 6a – Armoured – PE Jacket

### Transmission performances

MESURE S (MHZ)	ATTENUATION (dB/100m)		NEXT (dB)		PS NEXT (dB)		ELFLEXT (dB/100m)		PSELFEXT (dB/100m)		RETURN LOSS (dB)	
	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C
4	3.8	3.7	66.3	67	63.3	64	55.9	66	52.9	63	23.0	25
10	5.9	5.8	60.3	62	57.3	59	48	63	45	60	25.0	27
16	7.5	7.3	57.2	59	54.2	56	43.9	62	40.9	59	25.0	27
25	9.4	9.2	54.3	56	51.3	53	40	57	37	54	24.3	27
31.25	10.5	10	52.9	55	49.9	52	37.9	52	35.1	49	23.6	25
100	19.1	18.8	45.3	47	42.3	44	28	44	25	41	20.1	22
200	27.6	27	40.8	43	37.8	40	22	35	19	32	18	20
250	31.1	30.	39.3	42	36.3	39	20.0	29	17.0	26	17.3	19
300	34.3	34	38.1	40	35.1	37	18.4	27	15.4	24	17.3	19
400	40.0	39	36.3	38	33.3	35	16	26	13	23	17.3	18
500	45.3	44.8	34.8	37	31.8	34	14	26	11	23	17.3	18
525	NC	45.0	NA	36	NA	33	NA	22	NA	19	NA	17

Standard values at 20°C according to IEC 61156-5 / Cat6A

### Electrical properties

### Physical characteristics

Max. electrical resistance of conductors : 95 Ω / Km

Mutual capacitance (nom.) : 45 pF / m

Characteristic impedance from 1 to 525MHz : 100 Ω

Velocity of propagation : 79 %

Operating temperature : - 20° C / + 70°C

Minimum bending radius: 8 x cable diameter

Conform to RoHS directive

### Ordering information

Reference	5254ARPE
Pairs number	4
AWG	23
Outer diameter (mm)	10.3 +/- 0.5 mm