Data Sheet 1/2

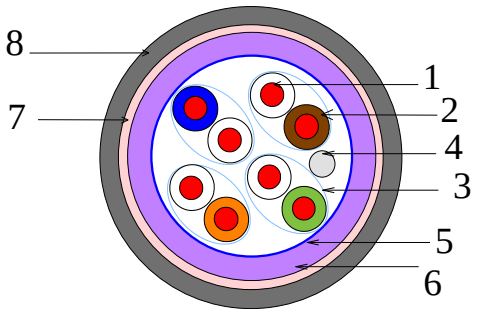
Ed1 03/15 OP

REF : 525xARPE

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



5254ARPE



1. **Conductor** : Solid bare copper AWG23
2. **Insulation** : PE Skin-Foam-Skin
3. **Individual shield of pairs:** Aluminium/Polyester foil ; Coverage:110%
4. **Drain wire** : Solid tinned copper
5. **Synthetic foil**
6. **inner jaket** : LSZH –Violet RAL 4001
7. **Armour** : Courragted steel tape
8. **outer jaket** : Polyethylene - Black RAL 9005

Description

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, it 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

CABLE	IEC 61156-5 Cat6a
SYSTEM	ISO/IEC 11801 CLASS Ea

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Data Sheet 2/2

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REF : 525xARPE

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

Electrical properties	Physical characteristics
Max. electrical resistance of conductors : 95 Ω / Km	
Mutual capacitance (nom.) : 45 pF / m	Operating temperature : - 20° C / + 70°C
Characteristic impedance from 1 to 525MHz : 100 Ω	Minimum bending radius: 8 x cable diameter
Velocity of propagation : 79 %	Conform to RoHS directive

Transmission performances

MESURES (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;

Ordering information

Reference	**5254ARPE**	
Pairs nb	4	
AWG	23	
Outer diameter (mm)	10.3 +/- 0.5mm	
Packing	100m	

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