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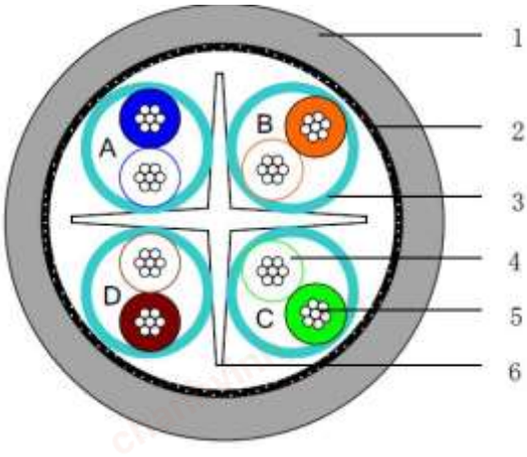
Datasheet

RS PRO 4 pairs S/FTP Cat8 PVC

Stock No: **2082015**



Cross Section



1	Outer jacket
2	Braid shield
3	AL/Polyester
4	Filler
5	Conductor
6	Insulation

Physical characteristics

Structure	Construction	S/FTP
	Number of Pairs	4
Conductor	AWG	26 AWG
	Conductor material	Stranded bare copper
	Conductor dimension	7/(0.16±0.008) mm
Insulation	Insulation material	Foam PE
	Insulation dimension	1.03±0.05 mm
	Number colour (Ring marking)	1.White/Blue(Ring) & Blue 2.White/Orange(Ring) & Orange 3.White/Green(Ring) & Green 4.White/Brown(Ring) & Brown
Cabling	Twisting lay length	≦30mm
	Cabling lay length	≦200mm
Filler	Filler material	PE
Shield	Individual shield & material	AL-Polyester,AL-foil facing outside
	Primary overall shield braid&material	Tinned copper
	Shield coverage Min.	55%
	Drain wire	N/A
Outer jacket	Outer jacket material	PVC
	Outer jacket thickness (nom.)	0.4 mm
	Overall nominal dimension	6.8±0.3 mm
	Outer jacket rip cord	N/A
	Outer jacket colour	White (RAL9003)
Mechanical characteristics	Operating temperature range	-20 ℃ ~ +75 ℃
	Bulk cable weight approx	N/A
	Max. recommended pulling tension	80 N
	Outer jacket tensile strength	≧9 MPa
	Outer jacket elongation	≧100%
	Outer jacket aging condition	(100±2)℃ x 168 hrs
	After aging, Tensile strength	≧70% of Unaging
	After aging, Elongation	≧50% of Unaging
	Cold bend	No crack (@ -20℃ x 4hrs)
Electrical characteristics	Nom. mutual capacitance	N/A
	Pair to ground capacitance unbalance	≦120 pF/km
	Nominal velocity of propagation	70%
	Max. delay skew	7.5 ns/30m
	Max. conductor DC resistance	14.2 Ω/100m (@ 20 ℃)
	Max. Conductor resistance unbalance	≤2% (@20 ℃)
	Resistance unbalance between pairs	≤5% (@ 20 ℃)
	Min. insulation resistance	5000 MΩ·Km
	Max. operating voltage - UL	300 V

Performance(Test length:30M)

Electrical characteristics:

Frequency (MHz)	Attenuation (dB/30m)	NEXT (dB Min)	PSNEXT (dB Min)	Return loss (dB Min)	ACR-F (dB Min)	PSACR-F (dB Min)	PSANEXT (dB Min)	PSAACRF (dB Min)	PD (ns/30m)
4	1.69	78.0	75.0	23.0	78.0	75.0	80.0	80.0	165.6
8	2.35	78.0	75.0	24.5	78.0	75.0	80.0	80.0	164.0
10	2.62	78.0	75.0	25.0	78.0	75.0	80.0	80.0	163.6
16	3.30	78.0	75.0	25.0	76.5	73.5	80.0	78.1	162.9
20	3.69	78.0	75.0	25.0	74.6	71.6	80.0	76.2	162.6
25	4.13	78.0	75.0	25.0	72.6	69.6	80.0	74.2	162.4
31.25	4.62	78.0	75.0	25.0	70.7	67.7	80.0	72.3	162.1
62.5	6.56	78.0	75.0	23.6	64.7	61.7	80.0	66.3	161.6
100	8.34	75.4	72.4	22.2	60.6	57.6	80.0	62.2	161.3
200	11.91	70.9	67.9	20.1	54.6	51.6	80.0	56.2	161.0
250	13.38	69.4	66.4	19.4	52.6	49.6	80.0	54.2	160.9
300	14.71	68.2	65.2	18.9	51.1	48.1	80.0	52.7	160.8
400	17.11	66.4	63.4	18.0	48.6	45.6	78.5	50.2	160.7
500	19.24	64.9	61.9	17.3	46.6	43.6	77.0	48.2	160.7
600	21.20	63.7	60.7	16.8	45.0	42.0	75.8	46.6	160.6
1000	27.87	60.4	57.4	15.2	40.6	37.6	72.5	42.2	160.5
1500	34.75	57.8	54.8	14.0	37.1	34.1	69.9	38.7	160.5
2000	40.73	55.9	52.9	13.1	34.6	31.6	68.0	36.2	160.4

Frequency (MHz)	Characteristic Impedance (Ω)
4	-
8	-
10	-
16	-
20	-
25	-
31.25	-
62.5	-
100	100+/-5
200	-
250	-
300	-
400	-
500	-
600	-
1000	-
1500	-
2000	-

Note:

*Test embient temp. is 20℃

* If FEXT loss is greater than 90 dB up to 2000 MHz,ACR-F and PS ACR-F loss may not be calculated.

* If AFEXT loss is greater than 90 dB up to 1000 MHz and greater than 80 dB up to 2000MHz,AACR-F loss may not be calculated. *Measurements and limits of 30 m and 100 m (according to IEC 61156-6) samples are independent. Limits for 30 m below 40 MHz are for information only (for further study).

*Mutual capacitance, capacitance unbalance, characteristic impedance, return loss, insertion loss, NEXT loss, ACRF measurements and calculations shall be performed on cable samples of 30 m (98 ft) removed from the reel or packaging. The test sample shall be laid out along a non-conducting surface, loosely coiled, or supported in aerial spans, and allpairs shall be terminated according to the specific requirements of this annex. Other test configurations are acceptable if correlation to the reference method has been verified. In case of conflict, the reference method (30 m, off-reel, resistor terminated) shall be used to determine conformance to the minimum requirements of this Standard.

Description

- Rated temperature: 75℃
- Reference standard: IEC 61156-9&ISO/IEC 11801，
- Product standard certification:
- Flame test: EUROCLASS Eca
- Solid bare copper conductor
- Colour-coded PE insulation
- LSZH jacket
- Packaging: Per customer request

Application

- 100Base-T4
- 100Base-TX
- 100VG-AnyLAN
- 1000Base-T
- 1000Base-TX
- 155Mbps ATM
- 622Mbps ATM
- 10 Gb Ethernet
- 40 Gb Ethernet

Marking

HUAXUN LAN CABLE 4PR 26AWG S/FTP CAT8 PVC 75℃ IEC 60332-1 YYYYMMDDJJNN ***M

Note:

1. 1.The jacket shall be used black jet print marking except white color on black jacket.

2.YYYYMMDDJJNN-Batch number.

3.***-cycled meter marking from 0~305 or 0-500 with 1m intervals,meter markings to match the length of cable remaining on the reel.

4.Marking height :3+/-0.3mm,width 2+/-0.3mm..

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