



Description:

25 AWG solid .018" tinned copper conductors, Gas-injected FHDPE insulation, Duobond® foil plus a tinned copper interlocked serve shield (100% coverage), PVC inner jacket, PVC jacket.

Usage (Overall)

Suitable Applications:

RGB Projectors, LCD Projectors, Video Distribution, Component Video, Graphic Displays, Special Effects Editing, Animation, Video Post Production, Home Theater, Offices, Boardrooms, Auditoriums, Teleconferencing, Theaters

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
4	25	Solid	TC - Tinned Copper	.018

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	0.074

Inner Shield

Inner Shield Material:

Layer #	Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
1	Bonded Duofoil®	Tape	Aluminum Foil-Polyester Tape Lightly bonded to dielectric	100
2		Interlocked Serve	TC - Tinned Copper	95

Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (in.)
PVC - Polyvinyl Chloride	.114

Inner Jacket Color Code Chart:

Number	Color
1	Red
2	Green
3	Blue
4	Yellow

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cabling

Overall Nominal Diameter: 0.351 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +75°C

UL Temperature Rating: 60°C

Non-UL Temperature Rating: 75°C

1278R Coax - Mini Hi-Res Component Video Cable

Bulk Cable Weight:	55 lbs/1000 ft.
Max. Recommended Pulling Tension:	110 lbs.
Min. Bend Radius (Each Coax):	1.100 in.
Min. Bend Radius (Overall):	3 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
EU CE Mark:	No
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Flame Test

UL Flame Test:	UL1666 Vertical Shaft
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Suitability

Suitability - Indoor:	Yes - Risers
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/ft)

.087

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

17.0

Nominal Velocity of Propagation:

VP (%)

80

Nominal Delay:

Delay (ns/ft)

1.24

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

34

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

5.4

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.)

1	0.52
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1278R Coax - Mini Hi-Res Component Video Cable

5	1.17
50	3.7
100	4.9
200	6.7
400	9.5
750	13.4
900	15.0
1000	15.8
3000	31.2

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Operating Voltage - Non-UL:

Voltage
300 V RMS

Minimum Return Loss:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
		5	850	20

Sweep Test

Sweep Testing: 5 - 850 MHz

Misc. Information (Overall)

Other Description: 10-03-05 BAG: Added sweep test and connectors

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1278R B591000	1,000 FT	60.000 LB	BLACK, MATTE	C	4#25LDPE/GIFHDLDP SH FRPVC PVC
1278R B59500	500 FT	31.500 LB	BLACK, MATTE	C	4#25LDPE/GIFHDLDP SH FRPVC PVC

Notes:

C = CRATE REEL PUT-UP.

Bundled RGB Cable

CM, CMR and CMP Rated



Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
				Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/100 Ft.	dB/100m

26 AWG Stranded (7x34) .019" BC Conductor • Duofoil® (100% Coverage) + TC Braid Shield (93% Coverage) • Overall Polyester Tape

Foam HDPE Insulation • Inner PVC Jacket (Color Code: See Chart Below) • Overall Black PVC Jacket

UL AWM Styles 1354 and 2668 (30V 60°C)	1164B	NEC:	3	500	152.4	38.0	17.2	26 AWG (7x34)	.090	2.29	Duofoil + 93% TC Braid	.388	9.86	75	78%	17.3	56.7	1	.6	2.0
		CEC:		1000	304.8	78.0	35.5		Coax OD:			5	1.3					4.3		
		CM						.019"	.146	3.71	8.6Ω/M'							10	1.8	5.9
		CM						BC			28.2Ω/km							30	3.1	10.2
		CM						41.5Ω/M'										50	3.9	12.8
		CM						136.1Ω/km										100	5.4	17.7
		CM																200	7.5	24.6
		CM																400	10.4	34.1
		CM																700	13.5	44.3
		CM																900	15.2	49.9
		CM																1000	15.9	52.2

Color Code Chart

Cond.	Color	Cond.	Color
1	Red	4	White
2	Green	5	Yellow
3	Blue		

25 AWG Solid .018" Tinned Copper Conductors • Duobond® (100% Coverage) + Tinned Copper Interlocked Serve Shield (95% Coverage)

FPFA Insulation • Inner PVC Jacket (Color Code: See chart below) • Overall Black PVC Jacket

300V RMS 60°C	1277R <small>new</small>	NEC:	3	500†	152.4	25.5	11.6	25 AWG (solid)	.074	1.88	Duobond + 95% TC Braid	.320	8.13	75	80%	17.0	55.8	1	.5	1.7
		CEC:		1000†	304.8	48.0	21.8		Coax OD:			5	1.2					3.8		
		CMR						.018"	.114	2.90	5.4Ω/M'							50	3.7	12.1
		CMG						TC			17.7Ω/km							100	4.9	16.1
		CMG						34.0Ω/M'										200	6.7	22.0
		CMG						111.6Ω/km										400	9.5	31.2
		CMG																750	13.4	44.0
		CMG																900	15.0	49.2
		CMG																1000	15.8	51.8
		CMG																3000	31.2	102.4

100% Sweep tested. 5 MHz to 850 MHz. See page 6.34 for single coax versions.

Color Code Chart

Cond.	Color	Cond.	Color
1	Red	4	Yellow
2	Green	5	Black
3	Blue	6	White

Plenum • FPFA Insulation • Inner Fluorocopolymer Jacket (Color Code: See chart below) • Overall Gray PVC Jacket

300V RMS 60°C	1277P <small>new</small>	NEC:	3	500	152.4	19.0	9.8	25 AWG (solid)	.074	1.91	Duobond + 95% TC Braid	.276	7.01	75	81%	16.8	55.1	1	.5	1.6
		CEC:		1000	304.8	41.0	19.5		Coax OD:			5	1.2					3.9		
		CMP						.018"	.111	2.92	5.4Ω/km							50	3.8	12.5
		CMP						TC			17.7Ω/km							100	5.2	17.1
		CMP						34.0Ω/M'										200	7.1	23.3
		CMP						11.6Ω/km										400	10.0	32.8
		CMP																750	14.3	46.9
		CMP																1000	16.9	55.4

100% Sweep tested. 5 MHz to 850 MHz. See page 6.34 for single coax versions.

Color Code Chart

Cond.	Color	Cond.	Color
1	Red	4	Yellow
2	Green	5	Black
3	Blue	6	White

BC = Bare Copper • DCR = DC Resistance • FPFA = Foam Perfluoroalkoxy • HDPE = High-density Polyethylene • TC = Tinned Copper

†Spools are one piece, but length may vary ±10% from length shown.