

#3689 - Solid 28 AWG VHF Halogen Free UL 444



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Part NO: 3689

Product Code: 1301-TEL3016029/004 Rev C 20091021

Product Description

Application:

HALOGEN FREE SCREENED SYMMETRICAL CABLE FOR INDOOR USE

Multi-construction

4Pairs

Construction

4Pairs	Tinned Copper
Construction	T0.32
Insulation	HDPE
Nom.Thickness(mm)	0.16
Nom.Diameter(mm)	0.64×2C twist
Color	See the table 1
Mylar Spiral	>=115%
Al-Pet-Pet shield	>=115%
Braiding	Tinned Copper
Construction(mm)	T0.10×8×6
Braiding coverage	Min 50%
Jacket	LSZH
Nom.Thickness(mm)	0.4
Nom.Diameter(mm)	4.0
Color	BLACK

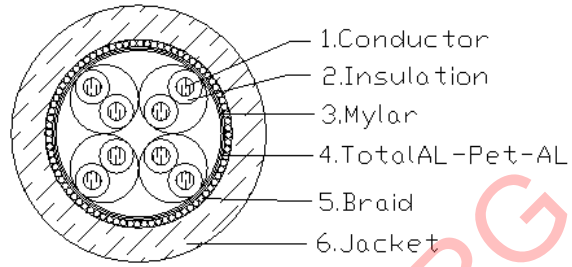
PACKAGING

500M/Wooden Drum

Marking (white ink;)

RG Wire & Cable #3689 E478021 (UL) CM 4 Pair 28 AWG 75C [MM]

Design



Electrical Characteristics

Max.Conductor DC Resistance at 20°C (Ω/Km)	245
Rated Temperature(°C)	Fixed -40 to +75 During Installation -20 to +75
Rated voltage(V)	100
Min. Insulation DC Resistance at 20°C (MΩ*KM)	5000
Dielectric strength (conductor-conductor)	2.5kV DC 2 sec
Dielectric strength (conductor-shield)	2.5kV DC 2 sec
Min. Bending radius	24
Capacitance mutual(pF/m) 1 KHz	Nom 51
Capacitance Unbalance (pF/500m) 1KHz	Max 150
Capacitance Earth Unbalance (pF/500m) 1KHz	Max 1600
Characteristic impedance(Ω) 1-100MHz	100±15
Transfer Impedance (Zt) at 30MHz	20mOhm/m
Screen Resistance	Max 36mOhm/m
Attenuation 1-100MHz(dB/100m)	Max 4.5*(f/fo)
NEXT 1-100MHz(dB)	Min 65-15*log ₁₀ (f/fo)
Fire Properties	UL 1685 CM IEC 60332-3 C
Acid Halogen Gas (IEC 60754-2)	Max 1%
Pulling Force	Max 32 N

Note: For Attenuation and NEXT use f0=1MHz in formulas

Table 1

Pair NO:	Color	
	A	B
1	white / blue	blue
2	white / orange	orange
3	white / green	green
4	white / brown	brown

RoHS GUIDELINE

We operate according to the following standards

Control Item	Standard	Testing Method	Testing Equipment
Cadmium content (Cd)	<0.01%	EN1122	ICP-AES
Lead content (Pb)	<0.1%	EPA3050B	ICP-AES
Mercury content (Hg)	<0.1%	EPA3052	ICP-AES
Chromium (VI) content	<0.1%	EPA3060(UN-VIS)	ICP-AES
Polybrominated Biphenyls(PBB)	Forbidden	GC/MS	
Polybrominated Diphenyl Ether (PBDE)	Forbidden	GC/MC	

Revision History

Rev 6 Update cable drawing 2017/09/29

(RGW-2270-6)