

# #5068 - 26 AWG Halogen Free Screened HF Cable



RG Wire & Cable Ltd  
67 Cavendish Way  
Glenrothes KY6 2SB  
Scotland  
Tel: +44 1592 775800  
Fax: +44 1592 775822

Part NO: 5068

Product Code: TEL 301 6009/004

## Product Description

### Application:

HALOGEN FREE SCREENED SYMMETRICAL CABLE FOR INDOOR USE

### Multi-construction

4Pairs

### Construction

**4Pairs** **Tinned Copper**  
AWG 26  
Construction T0.4  
**Insulation** **Skin-Foam-PE**  
Thickness(mm) 0.18  
Insulation Dia.(mm) 0.76×2C twist  
Insulation Color See the table 1

**Construction: each pairis twisted, unshield**

**Al-Pet-Al shield** **>=115%**

**Braiding** **Tinned Copper**

Construction T0.10×16×5  
Braiding coverage 60%

**Jacket** **LSZH**

Thickness(mm) 0.65  
Dia.(mm) 5.20  
Jacket Color BLACK

### PACKAGING

500M/Wooden Drum

**Marking** **RG Wire & Cable #5068 E478021 (UL)**  
**CMR 4 Pair 26 AWG 75C [MM]**

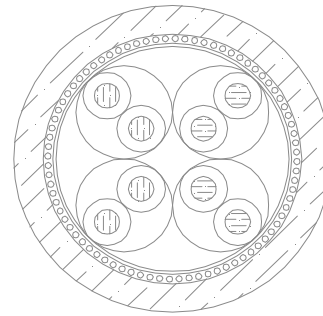
Insulation Strip Force Min 1 N  
Pulling Force Max 50 N

## 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	

## Design



## Electrical Characteristics

Max.Conductor DC Resistance at 20°C (Ω/Km)	<153
Rated Temperature(°C)	-20(during install) -40(fixed) to +80
Operating 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	20mm
Capacitance mutual(pF/m)	46
Attenuation(-dB/100m)	
1 MHz	3.2
4 MHz	6.5
10 MHz	10
16 MHz	13
31.25 MHz	17
62.5 MHz	23
100 MHz	30
125 MHz	33
Capacitance Unbalance (pF/500m)	Max 150
Resistance Screen (mΩ/m)	Max 30
Transfer Impedance @30 MHz (mΩ/m)	Max 30
Screening Attenuation 30 - 150 MHz	Min 50dB
Characteristic Impedance 100Mhz	100 +/- 5 Ω
<b>Return Loss (Min dB)</b>	
4 - 10 Mhz	Min 20+5*log <sub>10</sub> (f/fo)
10 - 20 Mhz	25
20 - 125 Mhz	Min 25-7*log <sub>10</sub> (f/fo*20)
Velocity of Propogation 4 - 125 MHz	Min 0.18 Gm/s
Delay Skew 4 - 125 MHz	Max 0.45 ns/m
Unblce Attenuation LCL 1 - 100 MHz(dB/100m)	Min 40-10*log <sub>10</sub> (f/fo)
Near end crosstalk NEXT 1 - 125 MHz (dB)	Min 62-15*log <sub>10</sub> (f/fo)
Far end crosstalk ELFEXT 1 - 125 MHz(dB/100m)	Min 61-20*log <sub>10</sub> (f/fo)
Flame Properties	UL 1666 CMR IEC 60332-3C
Acid Halogen Gas	IEC 60754-2

For Calculating Return Loss, Unbalanced Attenuation  
NEXT, FEXT use fo=1MHz in formulas

Table 1

Pair no.	Color
1	White/Blue, Blue
2	White/Orange, Orange
3	White/Green, Green
4	White/Brown, Brown

CV	Notes	D	R	Date
A04	Update product code and cable marking	CC	RG	20170613