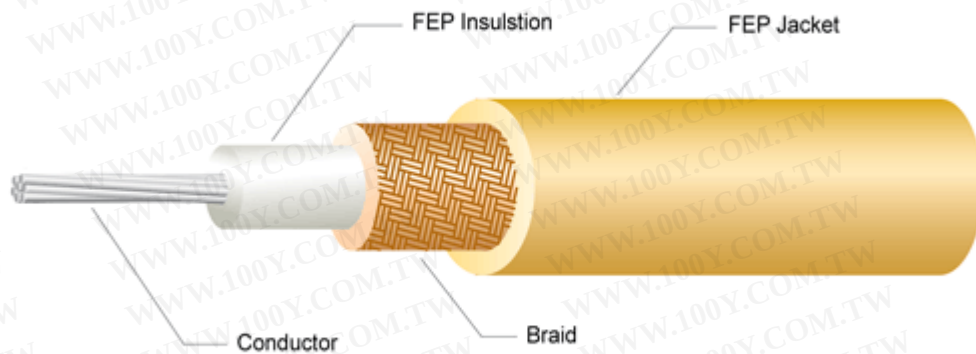


# RG-316/U High Frequency Coaxial Cable



## DESCRIPTION

- Conductor : Silver coated copper clad steel
- Insulation : FEP Teflon
- Braid : Silver coated copper
- Jacket : FEP Teflon
- Jacket Thickness : 0.25 ~ 0.62 mm.
- Temperature Range : -70°C ~ 200°C
- Voltage Rating : 30V

## CHARACTERISTICS

- Continuous working temperature range : -70°C ~ 200°C
- Resistant to solvents, chemicals, gasoline and radiations.
- High Dielectric Strength permits extremely
- Minimal signal distortion
- Tough flexible resistant to crush, abrasion.

| Document | Conductor |                    | Insulation       | Braid           | Jacket           | Capacitance | Impedance | VSWR(max.)    |     |
|----------|-----------|--------------------|------------------|-----------------|------------------|-------------|-----------|---------------|-----|
|          | AWG       | No./AWG<br>Strands | Diameter<br>(mm) | Coverage<br>(%) | Diameter<br>(mm) | (pF/ft)     | (ohms)    | Frequency(Hz) |     |
| RG-316/U | 26        | 7 x 33             | 1.53             | 95              | 2.54             | 29          | 50        | 1.2           | 1.3 |

## APPLICATIONS

Applications include mobile phone, PC and peripherals, home appliances, PDA, digital camera, GPS, network access device, video/audio equipment, security equipment, medical equipment, lighting equipment, remote control, wrist watch, car phone, hands-free voice-controlled device, broadcast equipment, identification card, shopping mail information etc.

# SPECIFICATION FOR APPROVAL

DOCUMENT: A30316U008

STYLE : 105°C 30V  
RG-316/U

SIZE: 7/0.175 SCCS

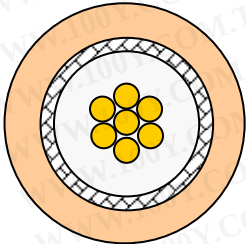
RECOGNIZED: UL 1979  
MEET VW-1

勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-34970699  
勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)



# WONDERFUL HI-TECH CO., LTD

## SPECIFICATION

|                     |                                                                                                                                                                                                                                                                                                                                    |                   |                                    |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------------|
| STYLE               | 105°C 30V<br>UL1979                                                                                                                                                                                                                                                                                                                | DOCUMENT NO :     | A30316U008                         |
| SIZE                | RG-316/U                                                                                                                                                                                                                                                                                                                           | ESTABLISHED DATE: | 2001/11/06                         |
| STANDARD : MIL-C-17 |                                                                                                                                                                                                                                                                                                                                    |                   |                                    |
| Conductor           | Size                                                                                                                                                                                                                                                                                                                               | AWG               | 26                                 |
|                     | Material                                                                                                                                                                                                                                                                                                                           | ----              | Silver-Coated Copper<br>Clad Steel |
|                     | Conductors No.                                                                                                                                                                                                                                                                                                                     | ----              | 7                                  |
|                     | Conductors Size                                                                                                                                                                                                                                                                                                                    | mm                | 0.175                              |
|                     | O.D.                                                                                                                                                                                                                                                                                                                               | mm                | 0.53                               |
| Insulation          | Average Thickness                                                                                                                                                                                                                                                                                                                  | mm                | 0.51                               |
|                     | Diameter                                                                                                                                                                                                                                                                                                                           | mm                | 1.53 ±0.03                         |
|                     | Material                                                                                                                                                                                                                                                                                                                           | ----              | FEP                                |
|                     | Color                                                                                                                                                                                                                                                                                                                              | ----              | Clear                              |
| Braid               | Material                                                                                                                                                                                                                                                                                                                           | ----              | Silver-Coated Copper               |
|                     | Construction                                                                                                                                                                                                                                                                                                                       | mm                | 16 / 5 / 0.092                     |
|                     | Coverage                                                                                                                                                                                                                                                                                                                           | %                 | 92.3                               |
| Jacket              | Average Thickness                                                                                                                                                                                                                                                                                                                  | mm                | 0.30                               |
|                     | Diameter                                                                                                                                                                                                                                                                                                                           | mm                | 2.53 ±0.10                         |
|                     | Material                                                                                                                                                                                                                                                                                                                           | ----              | FEP                                |
|                     | Color                                                                                                                                                                                                                                                                                                                              | ----              | ACCORDING TO CUSTOM                |
| Marking             | M17/113-RG316 MIL-C-17 WONDERFUL                                                                                                                                                                                                                                                                                                   |                   |                                    |
| Drawing             |  <div style="border: 2px solid red; padding: 5px; margin-top: 10px;"> <p>勝 特 力 材 料 886-3-5753170</p> <p>勝特力电子(上海) 86-21-34970699</p> <p>勝特力电子(深圳) 86-755-83298787</p> <p><a href="http://www.100y.com.tw">Http://www.100y.com.tw</a></p> </div> |                   |                                    |



# WONDERFUL HI-TECH CO., LTD.

## SPECIFICATION

| Electrical & Physical Properties |        |                  |                                |        |        |      |
|----------------------------------|--------|------------------|--------------------------------|--------|--------|------|
| Item                             |        |                  | RG-316/U                       |        |        |      |
| Rating Temp Voltage              |        |                  | 105°C 30V                      |        |        |      |
| Conductor Resistance             |        |                  | 281 OHM/KM/20°C MAX.           |        |        |      |
| Insulation Resistance            |        |                  | 3000 MEGA OHM-KM MIN.          |        |        |      |
| Dielectric Strength              |        |                  | AC 1 KV/Minute                 |        |        |      |
| Spark Test                       |        |                  | 2 KV                           |        |        |      |
| Insulation                       | Unaged | Tensile Strength | 2500 PSI MIN.( 1.76 Kg / m m²) |        |        |      |
|                                  |        | Elongation       | 200% MIN.                      |        |        |      |
|                                  | Aged   | Tensile Strength | UNAGED MIN 75%(168HRS×232°C)   |        |        |      |
|                                  |        | Elongation       | UNAGED MIN 75%(168HRS×232°C)   |        |        |      |
| Jacket                           | Unaged | Tensile Strength | 2500 PSI MIN.( 1.76 Kg / m m²) |        |        |      |
|                                  |        | Elongation       | 200% MIN.                      |        |        |      |
|                                  | Aged   | Tensile Strength | UNAGED MIN.75%(168HRS×232°C)   |        |        |      |
|                                  |        | Elongation       | UNAGED MIN.75%(168HRS×232°C)   |        |        |      |
| Nom. Impedance                   |        |                  | 50±5 Ohms                      |        |        |      |
| Nom. Capacitance                 |        |                  | 95.8 pF/m                      |        |        |      |
| Nom. Vel. of Prop.               |        |                  | 69.5%                          |        |        |      |
| VSWR (0 – 6 GHZ)                 |        |                  | Max 1.3                        |        |        |      |
| Attenuation (dB/100m)            | 10MHZ  | 100MHZ           | 1.8GHZ                         | 2.4GHZ | 5.2GHZ | 6GHZ |
|                                  | 10.2   | 34.1             | 180                            | 206    | 315    | 345  |

AK001/210X297/1.0

PAGE : 2

EDITION : 1.5

MAKER : *H. C. KUO*

CONFIRM : *C. Y. Chen*

APPROVAL : *W. J. Wang*

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-34970699  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)