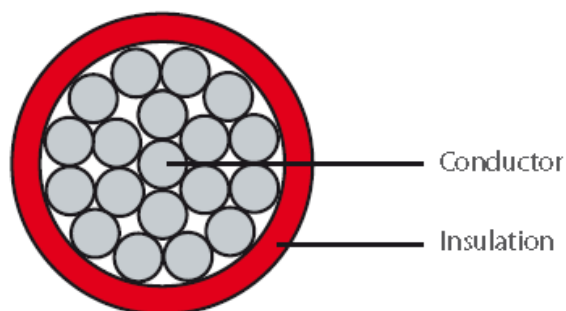




### PTFE INSULATED EQUIPMENT WIRE TO BS 3G 210 UNSCREENED TYPE A, NA, B, NB, C and NC

#### PRODUCT DESCRIPTION

PTFE insulated conductors are widely used for internal and external connectors for electronic equipment and instrumentation or environments that demand high levels of thermal, chemical, electrical or mechanical protection.

PTFE is highly resistant to oils, lubricants, fuels and is non flammable whilst being very flexible.

If required for termination, PTFE cables can be surface treated or 'etched'.

#### PRODUCT CHARACTERISTICS

Conductor : Silver (Type A, B or C) or Nickel (Type NA, NB or NC) plated annealed copper wire

Insulation PTFE

Available in a wide range of ROHS compliant solid and bi-colours

| BS 3G 210 TYPE A AND NA |                     |                           |                        |       |                   |      |
|-------------------------|---------------------|---------------------------|------------------------|-------|-------------------|------|
| AWG                     | Conductor formation | Nom Conductor Diameter mm | Resistance @ 20°C Ω/km |       | Cable Diameter mm |      |
|                         |                     |                           | A                      | NA    | Min               | Max  |
| 30                      | 1/0.250             | 0.250                     | 377.0                  | 387.0 | 0.45              | 0.60 |
| 28                      | 1/0.320             | 0.320                     | 229.0                  | 234.0 | 0.52              | 0.67 |
| 26                      | 1/0.400             | 0.400                     | 146.0                  | 148.0 | 0.60              | 0.75 |
| 32                      | 7/0.080             | 0.240                     | 558.0                  | 605.0 | 0.44              | 0.59 |
| 30                      | 7/0.100             | 0.300                     | 353.0                  | 377.0 | 0.50              | 0.65 |
| 28                      | 7/0.120             | 0.360                     | 244.0                  | 258.0 | 0.56              | 0.71 |
| 26                      | 7/0.150             | 0.450                     | 159.0                  | 166.0 | 0.65              | 0.80 |
| 24                      | 7/0.200             | 0.600                     | 88.3                   | 91.2  | 0.80              | 0.95 |
| 26                      | 19/0.100            | 0.500                     | 130.0                  | 139.0 | 0.70              | 0.85 |
| 24                      | 19/0.120            | 0.600                     | 89.8                   | 94.9  | 0.80              | 0.95 |
| 22                      | 19/0.150            | 0.750                     | 58.6                   | 61.3  | 0.95              | 1.10 |
| 20                      | 19/0.200            | 1.000                     | 32.5                   | 33.6  | 1.20              | 1.35 |

Temperature rating : Type A 190°C  
Type NA 260°C

Voltage rating 300Vrms

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The information contained in this document is valid and correct at the time of issue. However, we reserve the right to modify details without notice in the light of subsequent Standard / Specification changes and ongoing technical developments. Diagram colours are used for representation only.



## BS 3G 210 TYPE B AND NB

| AWG | Conductor formation | Nom Conductor Diameter mm | Resistance @ 20°C Ω/km |       | Cable Diameter mm |      |
|-----|---------------------|---------------------------|------------------------|-------|-------------------|------|
|     |                     |                           | B                      | NB    | Min               | Max  |
| 26  | 1/0.400             | 0.400                     | 146.0                  | 148.0 | 0.80              | 1.00 |
| 23  | 1/0.600             | 0.600                     | 64.3                   | 65.0  | 1.00              | 1.20 |
| 32  | 7/0.080             | 0.240                     | 558.0                  | 605.0 | 0.65              | 0.84 |
| 30  | 7/0.100             | 0.300                     | 353.0                  | 377.0 | 0.70              | 0.90 |
| 28  | 7/0.120             | 0.360                     | 244.0                  | 258.0 | 0.76              | 0.96 |
| 26  | 7/0.150             | 0.450                     | 159.0                  | 166.0 | 0.85              | 1.05 |
| 24  | 7/0.200             | 0.600                     | 88.3                   | 91.2  | 1.00              | 1.20 |
| 26  | 19/0.100            | 0.500                     | 130.0                  | 139.0 | 0.90              | 1.10 |
| 24  | 19/0.120            | 0.600                     | 89.8                   | 94.9  | 1.00              | 1.20 |
| 22  | 19/0.150            | 0.750                     | 58.6                   | 61.3  | 1.15              | 1.35 |
| 20  | 19/0.200            | 1.000                     | 32.5                   | 33.6  | 1.40              | 1.60 |
| 18  | 19/0.250            | 1.250                     | 20.6                   | 21.2  | 1.65              | 1.85 |

## PRODUCT CHARACTERISTICS

Temperature rating :  
 Type B 190°C  
 Type NB 260°C

Voltage rating 600Vrms

## BS 3G 210 TYPE C AND NC

| AWG | Conductor formation | Nom Conductor Diameter mm | Resistance @ 20°C Ω/km |       | Cable Diameter mm |      |
|-----|---------------------|---------------------------|------------------------|-------|-------------------|------|
|     |                     |                           | C                      | NC    | Min               | Max  |
| 19  | 1/0.900             | 0.900                     | 28.5                   | 28.6  | 1.56              | 1.82 |
| 32  | 7/0.080             | 0.240                     | 558.0                  | 605.0 | 0.90              | 1.16 |
| 30  | 7/0.100             | 0.300                     | 353.0                  | 377.0 | 0.96              | 1.22 |
| 28  | 7/0.120             | 0.360                     | 244.0                  | 258.0 | 1.02              | 1.28 |
| 26  | 7/0.150             | 0.450                     | 159.0                  | 166.0 | 1.11              | 1.37 |
| 24  | 7/0.200             | 0.600                     | 88.3                   | 91.2  | 1.26              | 1.52 |
| 26  | 19/0.100            | 0.500                     | 130.0                  | 139.0 | 1.16              | 1.42 |
| 24  | 19/0.120            | 0.600                     | 89.8                   | 94.9  | 1.26              | 1.52 |
| 22  | 19/0.150            | 0.750                     | 58.6                   | 61.3  | 1.41              | 1.67 |
| 20  | 19/0.200            | 1.000                     | 32.5                   | 33.6  | 1.66              | 1.92 |
| 18  | 19/0.250            | 1.250                     | 20.6                   | 21.2  | 1.91              | 2.17 |
| 16  | 19/0.300            | 1.500                     | 14.3                   | 14.6  | 2.16              | 2.46 |
| 14  | 19/0.335            | 1.675                     | 11.4                   | 11.6  | 2.34              | 2.74 |
| 12  | 19/0.450            | 2.250                     | 6.28                   | 6.38  | 2.91              | 3.31 |
| 10  | 37/0.400            | 2.800                     | 4.01                   | 4.08  | 3.46              | 3.86 |

Temperature rating :  
 Type C 190°C  
 Type NC 260°C

Voltage rating 1000Vrms

| AWG | Conductor formation | Area            | Brand-Rex Part Number |              |              |
|-----|---------------------|-----------------|-----------------------|--------------|--------------|
|     |                     | mm <sup>2</sup> | Type A                | Type B       | Type C       |
| 32  | 7/0.08              | 0.04            | SPC00492A***          | -            | -            |
| 30  | 1/0.25              | 0.05            | SPC00462A***          | X            | X            |
| 30  | 7/0.10              | 0.05            | SPC02994A***          | -            | -            |
| 28  | 1/0.32              | 0.05            | -                     | X            | X            |
| 28  | 7/0.12              | 0.08            | SPC00441A***          | SPC03796A*** | SPC00527A*** |
| 26  | 1/0.40              | 0.08            | SPC00440A***          | SPC00476A*** | X            |
| 26  | 7/0.15              | 0.13            | SPC00442A***          | SPC04106A*** | -            |
| 26  | 19/0.10             | 0.12            | -                     | -            | -            |
| 24  | 7/0.20              | 0.15            | SPC00443A***          | SPC00447A*** | SPC00452A*** |
| 24  | 19/0.12             | 0.22            | SPC04082A***          | SPC03237A*** | -            |
| 23  | 1/0.6               | 0.21            | -                     | SPC00446A*** | X            |
| 22  | 19/0.15             | 0.34            | SPC00444A***          | SPC00448A*** | SPC00471A*** |
| 20  | 19/0.20             | 0.60            | SPC00445A***          | SPC00449A*** | SPC00453A*** |
| 19  | 1/0.90              | 0.64            | X                     | X            | -            |
| 18  | 19/0.25             | 0.93            | X                     | SPC00463A*** | SPC06219A*** |
| 16  | 19/0.30             | 1.34            | X                     | SPC00512A*** | SPC00454A*** |
| 14  | 19/0.335            | 1.67            | X                     | X            | SPC00475A*** |
| 12  | 19/0.45             | 3.02            | X                     | X            | SPC00445A*** |
| 10  | 37/0.40             | 4.65            | X                     | X            | SPC01539A*** |
|     |                     |                 |                       |              |              |

| COLOUR CODES   | *** |
|----------------|-----|
| RED            | 001 |
| BLACK          | 002 |
| WHITE          | 003 |
| BLUE           | 004 |
| GREEN          | 005 |
| YELLOW         | 006 |
| BROWN          | 007 |
| GREY           | 008 |
| ORANGE         | 009 |
| PINK           | 012 |
| VIOLET         | 015 |
| GREEN / YELLOW | 184 |

**X** denotes not available  
 - Information available upon request

Bi-Colours also available