BS 3G 210

Extreme Performance PTFE Insulated Equipment Wires for Special Applications

BS 3G 210
Silver & Nickel Types up to 260°C

AEROSPACE // MILITARY
AUTOMOTIVE // INDUSTRIAL

125 YEARS
ANNIVERSARY CELEBRATION

amokabel BRAND-REX | Cable for Life.

ENGINEERED FOR EXTREMES
TRUSTED IN THE MOST CRITICAL APPLICATIONS

Introducing the Amokabel **BS 3G 210** range, a British Standard PTFE insulated equipment wire engineered for dependable performance in extreme applications and harsh operating environments.

Combining PTFE (polytetrafluoroethylene) insulation with silver or nickel plated conductors, our **BS 3G 210** range offers approved solutions with a wide thermal operating envelope and excellent mechanical resilience.

Rated for service voltages from 300V to 1000V, Amokabel BS 3G 210 cables support operating temperatures up to 260°C and provides exceptional resistance to fuels, oils, lubricants and chemicals.

Widely used for critical equipment wiring where thermal, electrical and environmental reliability are essential, BS 3G 210 cables are regularly specified in aerospace, defence and other demanding applications that require enhanced performance and reliability. This includes sectors such as automotive, industrial engineering, special electronics and scientific research where the same rigorous standards are a benefit to the mission.

> “ Aerospace is no place for compromise.

We are deeply integrated within the aerospace and defence sectors, having supplied high-performance cable solutions to leading aircraft manufacturers and defence contractors for decades, with products specified and deployed on major programmes including current Eurofighter and Gripen platforms.

These long-standing relationships, built on technical trust, consistency and compliance, combined with ongoing contracts and current programme support, underpin our position as a proven and reliable partner to the aerospace and defence industries.

MADE IN BRITAIN®

MAKE uk Defence

JOSCAR REGISTERED

(Ag) / (Ni)

(Ag) Silver or (Ni) Nickel Plated Conductors Offer a Range of Temperature, Mechanical & Electrical Performance Benefits.

PTFE

(PTFE) Polytetrafluoroethylene Insulation Provides Excellent Mechanical, Temperature and Electrical Resilience.

BS 3G 210 Covers a Vast Range of Cable Configurations, from Single Core to Multi Cores, with or without screens and sheathing.

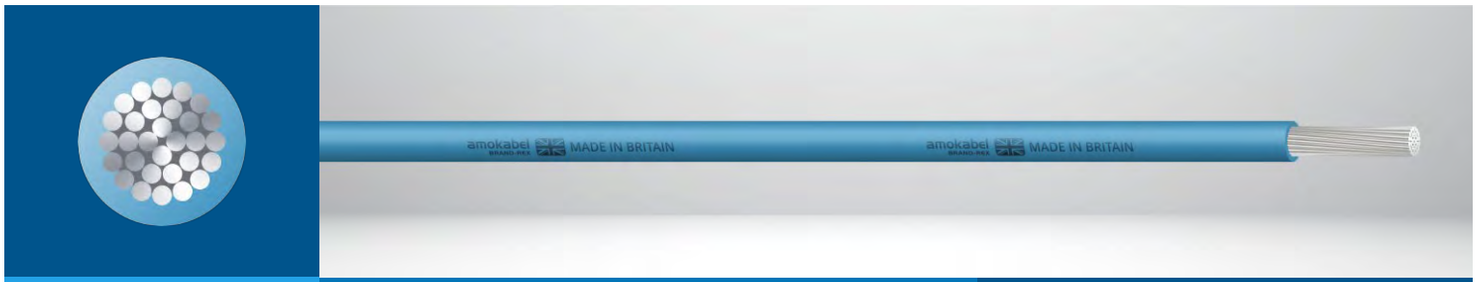
bsi AS/EN 9100 Aviation Space and Defence CERTIFIED

FM 60814

Confidence in quality, consistency, reliability and safety is key.

enquiries@amokabel.uk
+44 (0) 1942 265 500
www.amokabel.com

Datasheet LD012991 | **Revision** 1 | **Date** 02/10/2025



BS 3G 210
Type A

PTFE Insulated 300V Rated Equipment Wire

Oil & Fuel Resistant | Flame Retardant | Hydraulics & Fuel Resistant | Flexible Cable

INTRODUCTION

PTFE offers excellent resistance to oils, lubricants, hydraulic fluids, and aviation fuel. It is non-flammable, withstands soldering iron contact, and remains very flexible. While commonly selected for demanding aerospace use, PTFE wiring is equally suited to any application where extreme thermal, electrical, or mechanical conditions are present.

- SINGLE CORE
- SILVER PLATED COPPER
- 300V RATED
- 190°C Rated
- BS 3G 210 TYPE A

PRODUCT SELECTION

BS 3G 210 defines an extensive range of cable types from single to multicore configurations, screened, unscreened, and with various voltage and temperature classifications. Each type is identified by letters, such as Type A or Type NB.

For ease of specification, this single core version is grouped within a subset of six commonly used types. The information provided herein applies specifically to Single Core Type A.

V	190°C	260°C
1000	Type **C**	Type **NC**
600	Type **B**	Type **NB**
300	Type **A**	Type **NA**

CONSTRUCTION

Conductor	Stranded Silver-Plated Copper
Insulation	Extruded PTFE (Polytetrafluoroethylene)

NOMINAL DIMENSIONS

Conductor Gauge	See Table 1	AWG
Conductor Stranding	See Table 1	mm
Diameter over Insulation	See Table 1	mm

ELECTRICAL PROPERTIES

Voltage Rating	300	V
Max Conductor Resistance (@20°C)	See Table 1	Ω/km

PHYSICAL PROPERTIES

Fixed Operating Temperature Range	-75 to +190	°C
Flexing Minimum Temperature	-50	°C
Fixed Minimum Bend Radius	6	x Ø
Maximum Cable Weight	See Table 1	kg/km

STANDARDS

BS 3G 210 Type A

enquiries@amokabel.uk
+44 (0) 1942 265 500
www.amokabel.com

Table 1

Part Codes, Dimensions, Resistance & Weights

Part Codes (Excluding Colour Code)	Size (AWG)	Stranding (#/Ømm)	Nom. Conductor Ø (mm)	Min. Insulation Ø (mm)	Max. Insulation Ø (mm)	Current Rating (Amps) *	Max. Resistance (Ω/km @ 20°C)	Max. Weight (kg/km)
3G210-A-30A1-1C	30	1/0.250	0.250	0.45	0.60	2.0	377.0	0.96
3G210-A-28A1-1C	28	1/0.320	0.320	0.52	0.67	3.0	229.0	1.32
3G210-A-26A1-1C	26	1/0.400	0.400	0.60	0.75	4.0	146.0	1.83
3G210-A-32A7-1C	32	7/0.080	0.240	0.44	0.59	1.5	558.0	0.84
3G210-A-30A7-1C	30	7/0.100	0.300	0.50	0.65	2.0	353.0	1.10
3G210-A-28A7-1C	28	7/0.120	0.360	0.56	0.71	3.0	244.0	1.40
3G210-A-26A7-1C	26	7/0.150	0.450	0.65	0.80	4.0	159.0	1.96
3G210-A-24A7-1C	24	7/0.200	0.600	0.80	0.95	6.0	88.30	3.04
3G210-A-26A19-1C	26	19/0.100	0.500	0.70	0.85	5.0	130.0	2.26
3G210-A-24A19-1C	24	19/0.120	0.600	0.80	0.95	6.0	89.8	2.99
3G210-A-22A19-1C	22	19/0.150	0.750	0.95	1.10	8.0	58.6	4.41
3G210-A-20A19-1C	20	19/0.200	1.000	1.20	1.35	11.0	32.5	7.19

* Current ratings stated are for single cores in free air.
Current ratings based on a temperature rise of 40°C, allowing for ambient temperatures of up to 150°C and maximum conductor temperature of 190°C.
Current adjustment factors are as specified in BS 3G 210 : 1996 standard.

Tables 2a and 2b

Colour Code Modifiers & Usage

Code		Description
A		Solid / Single Colour
L		Longitudinal Stripe
S		Spiral / Helical Stripe

Primary / Base Colour	Secondary / Stripe Colour: Red	Black	White	Blue	Green	Yellow	Brown	Grey	Orange	Pink	Violet	Natural
Red	**001**	100	101	102	103	104	105	106	107		108	
Black	120	**002**	121	122	123	124	125	129	126	128	127	
White	140	141	**003**	142	143	144	145	146	147	148	151	
Blue	160	161	162	**004**	163	164	165	166	167	168		
Green	180	181	182	183	**005**	184	185	186	187	189	188	
Yellow	200	201	202	203	204	**006**	209	205	206	207	208	
Brown	220	221	222	223	224	225	**007**	226	227	228	229	
Grey	240	241	242	243	252	244	245	**008**	246	247	248	249
Orange	260	261	262	263	264	265	266	267	**009**	268	269	
Pink	280	281	282	283	284	285	286	287	288	**012**	289	
Violet	300	301	302	309	303	308	304	305	306	307	**015**	
Natural		330		331			332					**016**

Example Usage

3G210-A-30A1-1C-A001 30AWG Single Stranded Conductor, Single Core - Red
3G210-A-30A1-1C-L184 30AWG Single Stranded Conductor, Single Core - Green / Yellow Longitudinal Stripe
3G210-A-30A1-1C-S184 30AWG Single Stranded Conductor, Single Core - Green / Yellow Spiral / Helical Stripe

amokabel BRAND-REX
enquiries@amokabel.uk
+44 (0) 1942 265 500
www.amokabel.com

Datasheet LD012992 | **Revision** 1 | **Date** 02/10/2025

BS 3G 210 Type B

PTFE Insulated 600V Rated Equipment Wire

Oil & Fuel Resistant | Flame Retardant | Hydraulics & Fuel Resistant | Flexible Cable

INTRODUCTION

PTFE offers excellent resistance to oils, lubricants, hydraulic fluids, and aviation fuel. It is non-flammable, withstands soldering iron contact, and remains very flexible. While commonly selected for demanding aerospace use, PTFE wiring is equally suited to any application where extreme thermal, electrical, or mechanical conditions are present.

- SINGLE CORE
- SILVER PLATED COPPER
- 600V RATED
- 190°C RATED
- BS 3G 210 TYPE B

PRODUCT SELECTION

BS 3G 210 defines an extensive range of cable types from single to multicore configurations, screened, unscreened, and with various voltage and temperature classifications. Each type is identified by letters, such as Type A or Type NB.

For ease of specification, this single core version is grouped within a subset of six commonly used types. The information provided herein applies specifically to Single Core Type B.

V	190°C	260°C
1000	Type **C**	Type **NC**
600	Type **B**	Type **NB**
300	Type **A**	Type **NA**

CONSTRUCTION

Conductor	Stranded Silver-Plated Copper
Insulation	Extruded PTFE (Polytetrafluoroethylene)

NOMINAL DIMENSIONS

Conductor Gauge	See Table 1	AWG
Conductor Stranding	See Table 1	mm
Diameter over Insulation	See Table 1	mm

ELECTRICAL PROPERTIES

Voltage Rating	600	V
Max Conductor Resistance (@20°C)	See Table 1	Ω/km

PHYSICAL PROPERTIES

Fixed Operating Temperature Range	-75 to +190	°C
Flexing Minimum Temperature	-50	°C
Fixed Minimum Bend Radius	6	x Ø
Maximum Cable Weight	See Table 1	kg/km

STANDARDS

BS 3G 210 Type B

enquiries@amokabel.uk
+44 (0) 1942 265 500
www.amokabel.com

Table 1

Part Codes, Dimensions, Resistance & Weights

Part Codes (Excluding Colour Code)	Size (AWG)	Stranding (#/Ømm)	Nom. Conductor Ø (mm)	Min. Insulation Ø (mm)	Max. Insulation Ø (mm)	Current Rating (Amps) *	Max. Resistance (Ω/km @ 20°C)	Max. Weight (kg/km)
3G210-B-26A1-1C	26	1/0.400	0.400	0.80	1.00	4.0	146.00	2.56
3G210-B-23A1-1C	23	1/0.600	0.600	1.00	1.20	7.0	64.30	4.38
3G210-B-32A7-1C	32	7/0.080	0.240	0.65	0.84	1.5	558.00	1.44
3G210-B-30A7-1C	30	7/0.100	0.300	0.70	0.90	2.0	353.00	1.75
3G210-B-28A7-1C	28	7/0.120	0.360	0.76	0.96	3.0	244.00	2.10
3G210-B-26A7-1C	26	7/0.150	0.450	0.85	1.05	4.0	159.00	2.74
3G210-B-24A7-1C	24	7/0.200	0.600	1.00	1.20	6.0	88.30	3.95
3G210-B-26A19-1C	26	19/0.100	0.500	0.90	1.10	5.0	130.00	3.09
3G210-B-24A19-1C	24	19/0.120	0.600	1.00	1.20	6.0	89.80	3.89
3G210-B-22A19-1C	22	19/0.150	0.750	1.15	1.35	8.0	58.60	5.44
3G210-B-20A19-1C	20	19/0.200	1.000	1.40	1.60	11.0	32.50	8.43
3G210-B-18A19-1C	18	19/0.250	1.250	1.65	1.85	15.0	20.60	12.11

* Current ratings stated are for single cores in free air.
Current ratings based on a temperature rise of 40°C, allowing for ambient temperatures of up to 150°C and maximum conductor temperature of 190°C.
Current adjustment factors are as specified in BS 3G 210 : 1996 standard.

Tables 2a and 2b

Colour Code Modifiers & Usage

Code		Description
A		Solid / Single Colour
L		Longitudinal Stripe
S		Spiral / Helical Stripe

Primary / Base Colour	Secondary / Stripe Colour: Red	Black	White	Blue	Green	Yellow	Brown	Grey	Orange	Pink	Violet	Natural
Red	**001**	100	101	102	103	104	105	106	107		108	
Black	120	**002**	121	122	123	124	125	129	126	128	127	
White	140	141	**003**	142	143	144	145	146	147	148	151	
Blue	160	161	162	**004**	163	164	165	166	167	168		
Green	180	181	182	183	**005**	184	185	186	187	189	188	
Yellow	200	201	202	203	204	**006**	209	205	206	207	208	
Brown	220	221	222	223	224	225	**007**	226	227	228	229	
Grey	240	241	242	243	252	244	245	**008**	246	247	248	249
Orange	260	261	262	263	264	265	266	267	**009**	268	269	
Pink	280	281	282	283	284	285	286	287	288	**012**	289	
Violet	300	301	302	309	303	308	304	305	306	307	**015**	
Natural		330		331			332					**016**

Example Usage

3G210-B-26A1-1C -A001 26AWG Single Stranded Conductor, Single Core - Red
3G210-B-26A1-1C -L184 26AWG Single Stranded Conductor, Single Core - Green / Yellow Longitudinal Stripe
3G210-B-26A1-1C -S184 26AWG Single Stranded Conductor, Single Core - Green / Yellow Spiral / Helical Stripe

amokabel
BRAND-REX

Cable for Life.

125 YEARS
ANNIVERSARY
CELEBRATION

ISO 9001 Quality Management Systems CERTIFIED FM 606467
ISO 14001 Environmental Management CERTIFIED EMS 793 750
AS/EN 9100 Aviation Space and Defence CERTIFIED FM 60814
IATF 16949 Automotive Quality Management CERTIFIED 804113-000

enquiries@**amokabel**.uk
+44 (0) 1942 265 500

MADE IN BRITAIN®
JOSCAR REGISTERED
MAKE uk Defence

enquiries@amokabel.uk
+44 (0) 1942 265 500
www.amokabel.com

Datasheet LD012993 | **Revision** 1 | **Date** 02/10/2025

BS 3G 210 Type C

PTFE Insulated 1000V Rated Equipment Wire

Oil & Fuel Resistant | Flame Retardant | Hydraulics & Fuel Resistant | Flexible Cable

INTRODUCTION

PTFE offers excellent resistance to oils, lubricants, hydraulic fluids, and aviation fuel. It is non-flammable, withstands soldering iron contact, and remains very flexible. While commonly selected for demanding aerospace use, PTFE wiring is equally suited to any application where extreme thermal, electrical, or mechanical conditions are present.

- SINGLE CORE
- SILVER PLATED COPPER
- 1000V RATED
- 190°C Rated
- BS 3G 210 TYPE C

PRODUCT SELECTION

BS 3G 210 defines an extensive range of cable types from single to multicore configurations, screened, unscreened, and with various voltage and temperature classifications. Each type is identified by letters, such as Type A or Type NB.

For ease of specification, this single core version is grouped within a subset of six commonly used types. The information provided herein applies specifically to Single Core Type C.

V	190°C	260°C
1000	Type **C**	Type **NC**
600	Type **B**	Type **NB**
300	Type **A**	Type **NA**

CONSTRUCTION

Conductor	Stranded Silver-Plated Copper
Insulation	Extruded PTFE (Polytetrafluoroethylene)

NOMINAL DIMENSIONS

Conductor Gauge	See Table 1	AWG
Conductor Stranding	See Table 1	mm
Diameter over Insulation	See Table 1	mm

ELECTRICAL PROPERTIES

Voltage Rating	1000	V
Max Conductor Resistance (@20°C)	See Table 1	Ω/km

PHYSICAL PROPERTIES

Fixed Operating Temperature Range	-75 to +190	°C
Flexing Minimum Temperature	-50	°C
Fixed Minimum Bend Radius	6	x Ø
Maximum Cable Weight	See Table 1	kg/km

STANDARDS

BS 3G 210 Type C

enquiries@amokabel.uk
+44 (0) 1942 265 500
www.amokabel.com

Table 1

Part Codes, Dimensions, Resistance & Weights

Part Codes (Excluding Colour Code)	Size (AWG)	Stranding (#/Ømm)	Nom. Conductor Ø (mm)	Min. Insulation Ø (mm)	Max. Insulation Ø (mm)	Current Rating (Amps) *	Max. Resistance (Ω/km @ 20°C)	Max. Weight (kg/km)
3G210-C-19A1-1C	19	1/0.900	0.900	1.56	1.82	12.0	28.5	9.94
3G210-C-32A7-1C	32	7/0.080	0.240	0.90	1.16	1.5	558.0	2.52
3G210-C-30A7-1C	30	7/0.100	0.300	0.96	1.22	2.0	353.0	2.90
3G210-C-28A7-1C	28	7/0.120	0.360	1.02	1.28	3.0	244.0	3.31
3G210-C-26A7-1C	26	7/0.150	0.450	1.11	1.37	4.0	159.0	4.04
3G210-C-24A7-1C	24	7/0.200	0.600	1.26	1.52	6.0	88.30	5.42
3G210-C-26A19-1C	26	19/0.100	0.500	1.16	1.42	5.0	130.0	4.45
3G210-C-24A19-1C	24	19/0.120	0.600	1.26	1.52	6.0	89.8	5.36
3G210-C-22A19-1C	22	19/0.150	0.750	1.41	1.67	8.0	58.6	7.08
3G210-C-20A19-1C	20	19/0.200	1.000	1.66	1.92	11.0	32.5	10.33
3G210-C-18A19-1C	18	19/0.250	1.250	1.91	2.17	15.0	20.6	14.30
3G210-C-16A19-1C	16	19/0.300	1.500	2.16	2.46	20.0	14.3	19.25
3G210-C-14A19-1C	14	19/0.335	1.675	2.34	2.74	23.0	11.4	23.90
3G210-C-12A19-1C	12	19/0.450	2.250	2.91	3.31	35.0	6.28	38.50
3G210-C-10A37-1C	10	37/0.400	2.800	3.46	3.86	47.0	4.01	56.00

* Current ratings stated are for single cores in free air.
Current ratings based on a temperature rise of 40°C, allowing for ambient temperatures of up to 150°C and maximum conductor temperature of 190°C.
Current adjustment factors are as specified in BS 3G 210 : 1996 standard.

Tables 2a and 2b

Colour Code Modifiers & Usage

Code		Description
A		Solid / Single Colour
L		Longitudinal Stripe
S		Spiral / Helical Stripe

Primary / Base Colour	Secondary / Stripe Colour: Red	Black	White	Blue	Green	Yellow	Brown	Grey	Orange	Pink	Violet	Natural
Red	**001**	100	101	102	103	104	105	106	107		108	
Black	120	**002**	121	122	123	124	125	129	126	128	127	
White	140	141	**003**	142	143	144	145	146	147	148	151	
Blue	160	161	162	**004**	163	164	165	166	167	168		
Green	180	181	182	183	**005**	184	185	186	187	189	188	
Yellow	200	201	202	203	204	**006**	209	205	206	207	208	
Brown	220	221	222	223	224	225	**007**	226	227	228	229	
Grey	240	241	242	243	252	244	245	**008**	246	247	248	249
Orange	260	261	262	263	264	265	266	267	**009**	268	269	
Pink	280	281	282	283	284	285	286	287	288	**012**	289	
Violet	300	301	302	309	303	308	304	305	306	307	**015**	
Natural		330		331			332					**016**

Example Usage

3G210-C-19A1-1C-A001 19AWG Single Stranded Conductor, Single Core - Red
3G210-C-19A1-1C-L184 19AWG Single Stranded Conductor, Single Core - Green / Yellow Longitudinal Stripe
3G210-C-19A1-1C-S184 19AWG Single Stranded Conductor, Single Core - Green / Yellow Spiral / Helical Stripe

enquiries@amokabel.uk
+44 (0) 1942 265 500
www.amokabel.com

Datasheet LD012994 | **Revision** 1 | **Date** 02/10/2025

BS 3G 210
Type NA

PTFE Insulated 300V Rated Single Core Equipment Wire

Oil & Fuel Resistant | Flame Retardant | Hydraulics & Fuel Resistant | Flexible Cable

INTRODUCTION

PTFE offers excellent resistance to oils, lubricants, hydraulic fluids, and aviation fuel. It is non-flammable, withstands soldering iron contact, and remains very flexible. While commonly selected for demanding aerospace use, PTFE wiring is equally suited to any application where extreme thermal, electrical, or mechanical conditions are present.

- SINGLE CORE
- NICKEL PLATED COPPER
- 300V RATED
- 260°C RATED
- BS 3G 210 TYPE NA

PRODUCT SELECTION

BS 3G 210 defines an extensive range of cable types from single to multicore configurations, screened, unscreened, and with various voltage and temperature classifications. Each type is identified by letters, such as Type A or Type NB.

For ease of specification, this single core version is grouped within a subset of six commonly used types. The information provided herein applies specifically to Single Core Type NA.

V	190°C	260°C
1000	Type **C**	Type **NC**
600	Type **B**	Type **NB**
300	Type **A**	Type **NA**

CONSTRUCTION

Conductor	Stranded Nickel-Plated Copper
Insulation	Extruded PTFE (Polytetrafluoroethylene)

NOMINAL DIMENSIONS

Conductor Gauge	See Table 1	AWG
Conductor Stranding	See Table 1	mm
Diameter over Insulation	See Table 1	mm

ELECTRICAL PROPERTIES

Voltage Rating	300	V
Max Conductor Resistance (@20°C)	See Table 1	Ω/km

PHYSICAL PROPERTIES

Fixed Operating Temperature Range	-75 to +260	°C
Flexing Minimum Temperature	-50	°C
Fixed Minimum Bend Radius	6	x Ø
Maximum Cable Weight	See Table 1	kg/km

STANDARDS

BS 3G 210 Type NA

enquiries@amokabel.uk
+44 (0) 1942 265 500
www.amokabel.com

Table 1

Part Codes, Dimensions, Resistance & Weights

Part Codes (Excluding Colour Code)	Size (AWG)	Stranding (#/Ømm)	Nom. Conductor Ø (mm)	Min. Insulation Ø (mm)	Max. Insulation Ø (mm)	Current Rating (Amps) *	Max. Resistance (Ω/km @ 20°C)	Max. Weight (kg/km)
3G210-NA-30A1-1C	30	1/0.250	0.250	0.45	0.60	2.0	387.0	0.96
3G210-NA-28A1-1C	28	1/0.320	0.320	0.52	0.67	3.0	234.0	1.32
3G210-NA-26A1-1C	26	1/0.400	0.400	0.60	0.75	4.0	148.0	1.83
3G210-NA-32A7-1C	32	7/0.080	0.240	0.44	0.59	1.5	605.0	0.84
3G210-NA-30A7-1C	30	7/0.100	0.300	0.50	0.65	2.0	377.0	1.10
3G210-NA-28A7-1C	28	7/0.120	0.360	0.56	0.71	3.0	258.0	1.40
3G210-NA-26A7-1C	26	7/0.150	0.450	0.65	0.80	4.0	166.0	1.96
3G210-NA-24A7-1C	24	7/0.200	0.600	0.80	0.95	6.0	91.2	3.04
3G210-NA-26A19-1C	26	19/0.100	0.500	0.70	0.85	5.0	139.0	2.26
3G210-NA-24A19-1C	24	19/0.120	0.600	0.80	0.95	6.0	94.9	2.99
3G210-NA-22A19-1C	22	19/0.150	0.750	0.95	1.10	8.0	61.3	4.41
3G210-NA-20A19-1C	20	19/0.200	1.000	1.20	1.35	11.0	33.6	7.19

* Current ratings stated are for single cores in free air.
Current ratings based on a temperature rise of 40°C, allowing for ambient temperatures of up to 220°C and maximum conductor temperature of 260°C.
Current adjustment factors are as specified in BS 3G 210 : 1996 standard.

Tables 2a and 2b

Colour Code Modifiers & Usage

Code	Description
A	Solid / Single Colour
L	Longitudinal Stripe
S	Spiral / Helical Stripe

Primary / Base Colour	Secondary / Stripe Colour: Red	Black	White	Blue	Green	Yellow	Brown	Grey	Orange	Pink	Violet	Natural
Red	**001**	100	101	102	103	104	105	106	107		108	
Black	120	**002**	121	122	123	124	125	129	126	128	127	
White	140	141	**003**	142	143	144	145	146	147	148	151	
Blue	160	161	162	**004**	163	164	165	166	167	168		
Green	180	181	182	183	**005**	184	185	186	187	189	188	
Yellow	200	201	202	203	204	**006**	209	205	206	207	208	
Brown	220	221	222	223	224	225	**007**	226	227	228	229	
Grey	240	241	242	243	252	244	245	**008**	246	247	248	249
Orange	260	261	262	263	264	265	266	267	**009**	268	269	
Pink	280	281	282	283	284	285	286	287	288	**012**	289	
Violet	300	301	302	309	303	308	304	305	306	307	**015**	
Natural		330		331			332					**016**

Example Usage

3G210-NA-30A1-1C-A001 30AWG Single Stranded Conductor, Single Core - Red
3G210-NA-30A1-1C-L184 30AWG Single Stranded Conductor, Single Core - Green / Yellow Longitudinal Stripe
3G210-NA-30A1-1C-S184 30AWG Single Stranded Conductor, Single Core - Green / Yellow Spiral / Helical Stripe


amokabel
BRAND-REX
Cable for Life.
125
YEARS
ANNIVERSARY
CELEBRATION
ISO 9001 Quality Management Systems CERTIFIED
ISO 14001 Environmental Management CERTIFIED
AS/EN 9100 Aviation Space and Defence CERTIFIED
IATF 16949 Automotive Quality Management CERTIFIED
FM 606467
EMS 793 750
FM 60814
804113-000
enquiries@amokabel.uk
+44 (0) 1942 265 500
MADE IN BRITAIN
JOSCAR REGISTERED
MAKE uk Defence

enquiries@amokabel.uk
+44 (0) 1942 265 500
www.amokabel.com

Datasheet LD012995 | **Revision** 1 | **Date** 02/10/2025

BS 3G 210 Type NB

PTFE Insulated 600V Rated Single Core Equipment Wire

Oil & Fuel Resistant | Flame Retardant | Hydraulics & Fuel Resistant | Flexible Cable

INTRODUCTION

PTFE offers excellent resistance to oils, lubricants, hydraulic fluids, and aviation fuel. It is non-flammable, withstands soldering iron contact, and remains very flexible. While commonly selected for demanding aerospace use, PTFE wiring is equally suited to any application where extreme thermal, electrical, or mechanical conditions are present.

- SINGLE CORE
- NICKEL PLATED COPPER
- 600V RATED
- 260°C RATED
- BS 3G 210 TYPE NB

PRODUCT SELECTION

BS 3G 210 defines an extensive range of cable types from single to multicore configurations, screened, unscreened, and with various voltage and temperature classifications. Each type is identified by letters, such as Type A or Type NB.

For ease of specification, this single core version is grouped within a subset of six commonly used types. The information provided herein applies specifically to Single Core Type NB.

V	190°C	260°C
1000	Type **C**	Type **NC**
600	Type **B**	Type **NB**
300	Type **A**	Type **NA**

CONSTRUCTION

Conductor	Stranded Nickel-Plated Copper
Insulation	Extruded PTFE (Polytetrafluoroethylene)

NOMINAL DIMENSIONS

Conductor Gauge	See Table 1	AWG
Conductor Stranding	See Table 1	mm
Diameter over Insulation	See Table 1	mm

ELECTRICAL PROPERTIES

Voltage Rating	600	V
Max Conductor Resistance (@20°C)	See Table 1	Ω/km

PHYSICAL PROPERTIES

Fixed Operating Temperature Range	-75 to +260	°C
Flexing Minimum Temperature	-50	°C
Fixed Minimum Bend Radius	6	x Ø
Maximum Cable Weight	See Table 1	kg/km

STANDARDS

BS 3G 210 Type NB

enquiries@amokabel.uk
+44 (0) 1942 265 500
www.amokabel.com

Table 1

Part Codes, Dimensions, Resistance & Weights

Part Codes (Excluding Colour Code)	Size (AWG)	Stranding (#/Ømm)	Nom. Conductor Ø (mm)	Min. Insulation Ø (mm)	Max. Insulation Ø (mm)	Current Rating (Amps) *	Max. Resistance (Ω/km @ 20°C)	Max. Weight (kg/km)
3G210-NB-26A1-1C	26	1/0.400	0.400	0.80	1.00	4.0	148.0	2.56
3G210-NB-23A1-1C	23	1/0.600	0.600	1.00	1.20	7.0	65.0	4.38
3G210-NB-32A7-1C	32	7/0.080	0.240	0.65	0.84	1.5	605.0	1.44
3G210-NB-30A7-1C	30	7/0.100	0.300	0.70	0.90	2.0	377.0	1.75
3G210-NB-28A7-1C	28	7/0.120	0.360	0.76	0.96	3.0	258.0	2.10
3G210-NB-26A7-1C	26	7/0.150	0.450	0.85	1.05	4.0	166.0	2.74
3G210-NB-24A7-1C	24	7/0.200	0.600	1.00	1.20	6.0	91.2	3.95
3G210-NB-26A19-1C	26	19/0.100	0.500	0.90	1.10	5.0	139.0	3.09
3G210-NB-24A19-1C	24	19/0.120	0.600	1.00	1.20	6.0	94.9	3.89
3G210-NB-22A19-1C	22	19/0.150	0.750	1.15	1.35	8.0	61.3	5.44
3G210-NB-20A19-1C	20	19/0.200	1.000	1.40	1.60	11.0	33.6	8.43
3G210-NB-18A19-1C	18	19/0.250	1.250	1.65	1.85	15.0	21.2	12.11

* Current ratings stated are for single cores in free air.
Current ratings based on a temperature rise of 40°C, allowing for ambient temperatures of up to 220°C and maximum conductor temperature of 260°C.
Current adjustment factors are as specified in BS 3G 210 : 1996 standard.

Tables 2a and 2b

Colour Code Modifiers & Usage

Code	Description
A	Solid / Single Colour
L	Longitudinal Stripe
S	Spiral / Helical Stripe

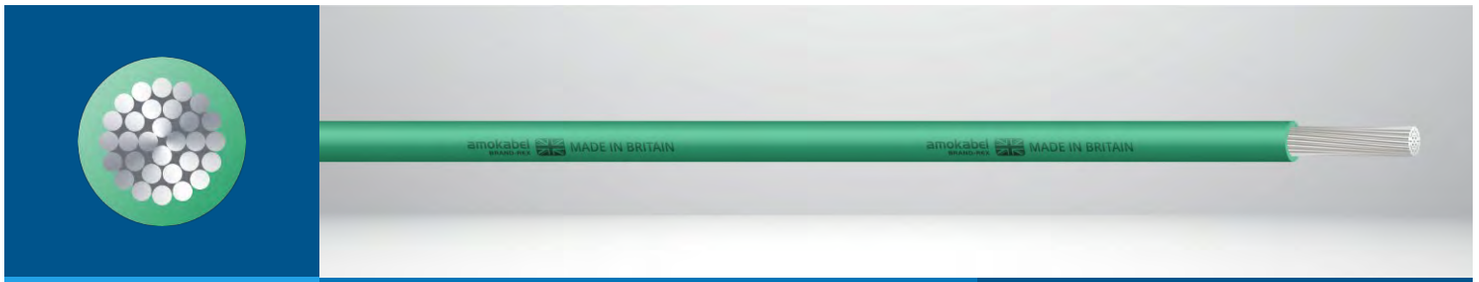
Primary / Base Colour	Secondary / Stripe Colour: Red	Black	White	Blue	Green	Yellow	Brown	Grey	Orange	Pink	Violet	Natural
Red	**001**	100	101	102	103	104	105	106	107		108	
Black	120	**002**	121	122	123	124	125	129	126	128	127	
White	140	141	**003**	142	143	144	145	146	147	148	151	
Blue	160	161	162	**004**	163	164	165	166	167	168		
Green	180	181	182	183	**005**	184	185	186	187	189	188	
Yellow	200	201	202	203	204	**006**	209	205	206	207	208	
Brown	220	221	222	223	224	225	**007**	226	227	228	229	
Grey	240	241	242	243	252	244	245	**008**	246	247	248	249
Orange	260	261	262	263	264	265	266	267	**009**	268	269	
Pink	280	281	282	283	284	285	286	287	288	**012**	289	
Violet	300	301	302	309	303	308	304	305	306	307	**015**	
Natural		330		331			332					**016**

Example Usage

3G210-NB-26A1-1C-A001 26AWG Single Stranded Conductor, Single Core - Red
3G210-NC-26A1-1C-L184 26AWG Single Stranded Conductor, Single Core - Green / Yellow Longitudinal Stripe
3G210-NC-26A1-1C-S184 26AWG Single Stranded Conductor, Single Core - Green / Yellow Spiral / Helical Stripe

enquiries@amokabel.uk
+44 (0) 1942 265 500
www.amokabel.com

Datasheet LD012996 | **Revision** 1 | **Date** 02/10/2025



BS 3G 210
Type NC

PTFE Insulated 1000V Rated Equipment Wire

Oil & Fuel Resistant | Flame Retardant | Hydraulics & Fuel Resistant | Flexible Cable

INTRODUCTION

PTFE offers excellent resistance to oils, lubricants, hydraulic fluids, and aviation fuel. It is non-flammable, withstands soldering iron contact, and remains very flexible. While commonly selected for demanding aerospace use, PTFE wiring is equally suited to any application where extreme thermal, electrical, or mechanical conditions are present.

- SINGLE CORE
- NICKEL PLATED COPPER
- 1000V RATED
- 260°C RATED
- BS 3G 210 TYPE NC

PRODUCT SELECTION

BS 3G 210 defines an extensive range of cable types from single to multicore configurations, screened, unscreened, and with various voltage and temperature classifications. Each type is identified by letters, such as Type A or Type NB.

For ease of specification, this single core version is grouped within a subset of six commonly used types. The information provided herein applies specifically to Single Core Type NC.

V	190°C	260°C
1000	Type **C**	Type **NC**
600	Type **B**	Type **NB**
300	Type **A**	Type **NA**

CONSTRUCTION

Conductor	Stranded Nickel-Plated Copper
Insulation	Extruded PTFE (Polytetrafluoroethylene)

NOMINAL DIMENSIONS

Conductor Gauge	See Table 1	AWG
Conductor Stranding	See Table 1	mm
Diameter over Insulation	See Table 1	mm

ELECTRICAL PROPERTIES

Voltage Rating	1000	V
Max Conductor Resistance (@20°C)	See Table 1	Ω/km

PHYSICAL PROPERTIES

Fixed Operating Temperature Range	-75 to +260	°C
Flexing Minimum Temperature	-50	°C
Fixed Minimum Bend Radius	6	x Ø
Maximum Cable Weight	See Table 1	kg/km

STANDARDS

BS 3G 210 Type NC

enquiries@amokabel.uk
+44 (0) 1942 265 500
www.amokabel.com

Table 1

Part Codes, Dimensions, Resistance & Weights

Part Codes (Excluding Colour Code)	Size (AWG)	Stranding (#/Ømm)	Nom. Conductor Ø (mm)	Min. Insulation Ø (mm)	Max. Insulation Ø (mm)	Current Rating (Amps) *	Max. Resistance (Ω/km @ 20°C)	Max. Weight (kg/km)
3G210-NC-19A1-1C	19	1/0.900	0.900	1.56	1.82	12.0	28.6	9.94
3G210-NC-32A7-1C	32	7/0.080	0.240	0.90	1.16	1.5	605.0	2.52
3G210-NC-30A7-1C	30	7/0.100	0.300	0.96	1.22	2.0	377.0	2.90
3G210-NC-28A7-1C	28	7/0.120	0.360	1.02	1.28	3.0	258.0	3.31
3G210-NC-26A7-1C	26	7/0.150	0.450	1.11	1.37	4.0	166.0	4.04
3G210-NC-24A7-1C	24	7/0.200	0.600	1.26	1.52	6.0	91.2	5.42
3G210-NC-26A19-1C	26	19/0.100	0.500	1.16	1.42	5.0	139.0	4.45
3G210-NC-24A19-1C	24	19/0.120	0.600	1.26	1.52	6.0	94.9	5.36
3G210-NC-22A19-1C	22	19/0.150	0.750	1.41	1.67	8.0	61.3	7.08
3G210-NC-20A19-1C	20	19/0.200	1.000	1.66	1.92	11.0	33.6	10.33
3G210-NC-18A19-1C	18	19/0.250	1.250	1.91	2.17	15.0	21.2	14.30
3G210-NC-16A19-1C	16	19/0.300	1.500	2.16	2.46	20.0	14.6	19.25
3G210-NC-14A19-1C	14	19/0.335	1.675	2.34	2.74	23.0	11.6	23.90
3G210-NC-12A19-1C	12	19/0.450	2.250	2.91	3.31	35.0	6.38	38.50
3G210-NC-10A37-1C	10	37/0.400	2.800	3.46	3.86	47.0	4.08	56.00

* Current ratings stated are for single cores in free air.
Current ratings based on a temperature rise of 40°C, allowing for ambient temperatures of up to 150°C and maximum conductor temperature of 190°C.
Current adjustment factors are as specified in BS 3G 210 : 1996 standard.

Tables 2a and 2b

Colour Code Modifiers & Usage

Code		Description
A		Solid / Single Colour
L		Longitudinal Stripe
S		Spiral / Helical Stripe

Primary / Base Colour	Secondary / Stripe Colour: Red	Black	White	Blue	Green	Yellow	Brown	Grey	Orange	Pink	Violet	Natural
Red	**001**	100	101	102	103	104	105	106	107		108	
Black	120	**002**	121	122	123	124	125	129	126	128	127	
White	140	141	**003**	142	143	144	145	146	147	148	151	
Blue	160	161	162	**004**	163	164	165	166	167	168		
Green	180	181	182	183	**005**	184	185	186	187	189	188	
Yellow	200	201	202	203	204	**006**	209	205	206	207	208	
Brown	220	221	222	223	224	225	**007**	226	227	228	229	
Grey	240	241	242	243	252	244	245	**008**	246	247	248	249
Orange	260	261	262	263	264	265	266	267	**009**	268	269	
Pink	280	281	282	283	284	285	286	287	288	**012**	289	
Violet	300	301	302	309	303	308	304	305	306	307	**015**	
Natural		330		331			332					**016**

Example Usage

3G210-NC-19A1-1C-A001 19AWG Single Stranded Conductor, Single Core - Red
3G210-NC-19A1-1C-L184 19AWG Single Stranded Conductor, Single Core - Green / Yellow Longitudinal Stripe
3G210-NC-19A1-1C-S184 19AWG Single Stranded Conductor, Single Core - Green / Yellow Spiral / Helical Stripe

You're in great hands.

125 YEARS ANNIVERSARY CELEBRATION

An important arm of the Amokabel Group, the Amokabel Brand-Rex facility in the UK is highly regarded as a centre of excellence for specialist cable development. Building on 125 years of expertise and the legacy of BICC, the facility in Leigh continues to serve as a hub for extreme performance cable innovation, serving major defence, aerospace, and naval marine contracts to this day.

Locations

Headquartered in Sweden with locations in Europe and Australia, the Amokabel Group unites an exceptional knowledge pool with unprecedented capacity, producing standard and custom cables for today's most demanding applications worldwide.

Sweden

Alstermo
HQ & Production

UK

Manchester
Production

Mansfield
Production

Germany

Wiefelstede
Sales

Australia

Sydney
Production

Canberra
Sales

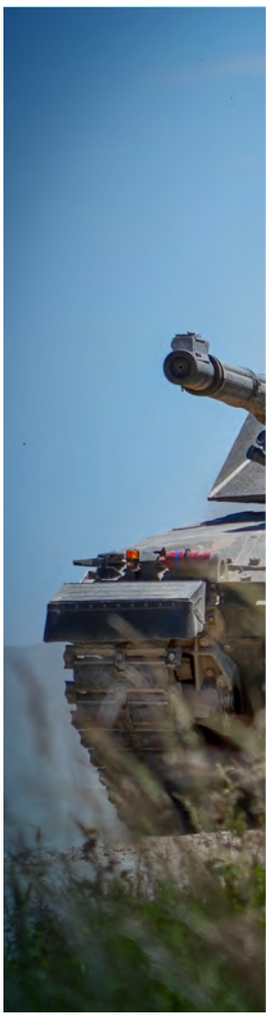
Spain

Vallbona
Production

Calanda
Production

Norway

Ålesund
Sales



amokabel
Cable for Life.

amokabel
BRAND-REX

West Bridgewater Street
Leigh
United Kingdom
WN7 4HB

enquiries@amokabel.uk
+44 (0) 1942 265 500
www.amokabel.com

bsi ISO 9001 Quality Management Systems CERTIFIED FM 606467 | ISO 14001 Environmental Management CERTIFIED EMS 793 750 | AS/EN 9100 Aviation Space and Defence CERTIFIED FM 60814 | IATF 16949 Automotive Quality Management CERTIFIED 804113-000

bsi UKAS MANAGEMENT SYSTEMS 0003

SMI Society of Maritime Industries - UK

MADE IN BRITAIN

JOSCAR REGISTERED

MAKE uk Defence

CYBER ESSENTIALS CERTIFIED