CIRCUITDIGITAL ELECTRONIC & DATA CABLE

-Multi-Core Data Cables

-Multi-Pair Data Cables

-Security Cables

-LAN Cables

-Coaxial Cables

-Composite Cables

-Figure 8 Connecting Wires/Speaker Wires OFC

-Loose Tube Optical Fibre

Multi-Core Data Cables

Applications

WW multi-core data cables are specifically used in limited distance unbalance core operation i.e. EIA RS423 and RS232.

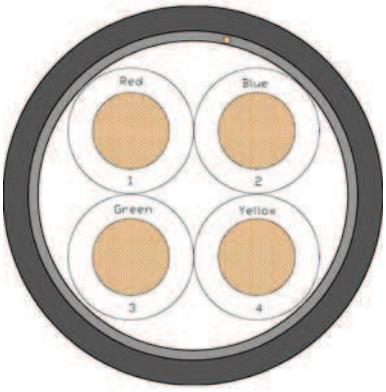
Configuration

Conductor: tinned annealed copper, class 2 comprised stranded (24AWG, 7/0.2mm) to AS/NZS 1125

Insulation: flame retardant PVC to UL Style 1729

Screen: aluminium/Polyester laminated foil tape (100%) with a 7/0.2mm stranded tinned annealed copper drain wire.

Sheath: the laid-up core is sheathed with continuous flame retardant PVC to UL Style 2464 Mist Grey.



Colour Chart

Core No.	Core Colour	Core No.	Core Colour	Core No.	Core Colour
1	Red	18	Red/brown	35	Violet/black
2	Blue	19	Yellow/blue	36	White/violet
3	Green	20	White/blue	37	White/orange
4	Yellow	21	Blue/black	38	White/grey
5	White	22	Orange/blue	39	White/black
6	Black	23	Green/blue	40	Yellow/grey
7	Brown	24	Grey/blue	41	Yellow/black
8	Violet	25	Yellow/green	42	Grey/orange
9	Orange	26	White/green	43	Grey/red
10	Pink	27	Green/black	44	Grey/black
11	Turquoise	28	Orange/green	45	Orange/brown
12	Grey	29	Grey/green	46	Orange/black
13	Red/blue	30	Yellow/brown	47	Green/brown
14	Red/green	31	White/brown	48	Blue/brown
15	Yellow/red	32	Brown/black	49	Pink/blue
16	White/red	33	Grey/brown	50	Pink/orange
17	Red/black	34	Yellow/violet		

Technical Data:

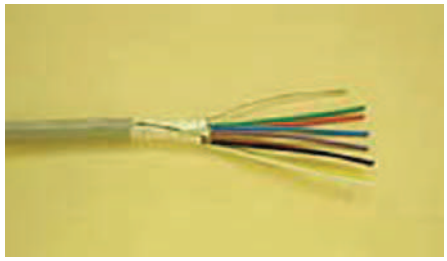
Rated voltage:	300 V rms
Test voltage:	1500V rms between conductors and between conductors and screen 4000V rms spark test
Conductor operating temp:	-25 °C ~ 75°C
Minimum ambient temp:	-5°C after installation and only when cable is in a fixed position
Minimum bending radius:	5 x cable O.D
Maximum pulling tension:	15N/mm^2 x total cross-sectional area of phase conductor

Electrical performance:

Screen type	Overall
Conductor resistance	8.9 Ω /100m
Capacitance (between adjacent wires)	90 pF/m
Capacitance (bunched)	145 pF/m

--The maximum conductor temperatures specified are based on the properties of the insulation material but in practice may need to be derated to take account of joints and terminations and environmental conditions.
--These cables are not to be regarded as power cables or for the direct connection of equipment to main power supplies

Product Code	NO. of Cores	Cable Dia. mm	Weight kg/km
4204	4	4.19	22.9
4206	6	4.81	29.4
4208	8	5.69	40.3
4209	10	6.28	47.2
4212	12	6.45	52.6
4214	14	6.72	58.3
4216	16	7.03	64.2
4218	18	7.35	70.1
4224	24	8.62	92.0
4225	25	8.62	94.4
4236	36	9.89	129.4
4252	50	11.52	178.4



Multi-Pair Data Cables

Applications

WW ACA 008 Approved multi-pair data cables with low capacitance and specifically used in extended distance balance pair operation i.e. EIA RS422, RS485, and RS232.

Configuration

Conductor: tinned annealed copper, class 2 comprised stranded (24AWG, 7/0.2mm) to AS/NZS 1125

Insulation: polypropylene (PP) to UL Style 1589

Screen: aluminium/Polyester laminated foil tape (100%) with a 7/0.2mm stranded tinned annealed copper drain wire.

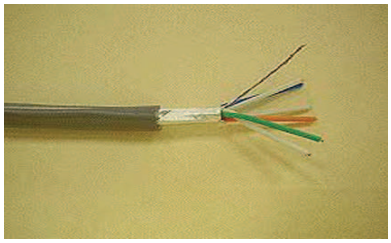
Sheath: the laid-up core is sheathed with continuous flame retardant PVC to UL Style 2493 Mist Grey.

Sheath option:

Polyethylene (PE) compound type sheath to AS 3808. Black sheath - UV stabilised, Water proof, Vermin resistance (i.e. rat), suitable for outdoor/underground use.

Colour Chart

Pair No.	Pair Colour		Pair No.	Pair Colour	
	1st wire	2nd wire		1st wire	2nd wire
1	White	Blue	14	Black	Brown
2	White	Orange	15	Black	Grey
3	White	Green	16	Yellow	Blue
4	White	Brown	17	Yellow	Orange
5	White	Grey	18	Yellow	Green
6	Red	Blue	19	Yellow	Brown
7	Red	Orange	20	Yellow	Grey
8	Red	Green	21	Violet	Blue
9	Red	Brown	22	Violet	Orange
10	Red	Grey	23	Violet	Green
11	Black	Blue	24	Violet	Brown
12	Black	Orange	25	Violet	Grey
13	Black	Green			



Technical Data:

Rated voltage: 300 V rms

Test voltage: 1500V rms between conductors and between conductors and screen
4000V rms spark test

Conductor operating temp: -15 °C ~ 105°C,

Minimum ambient temp: -5 °C after installation and only when cable is in a fixed position

Minimum bending radius: 5 x cable O.D

Maximum pulling tension: 15N/mm^2 x total cross-sectional area of phase conductor

Electrical performance:

Screen type	Overall	Individual & Overall
Conductor resistance	8.9 Ω /100m	8.9 Ω /100m
Capacitance (between wires of a pair)	50 pF/m	65pF/m
Capacitance (bunched)	95 pF/m	110pF/m
Impedance at 100kHz	135 Ω	115 Ω
Cross-talk at 100kHz	-50dB/100m	-80dB/100m
Attenuation at 100kHz	0.8dB/100m	1.0dB/100m

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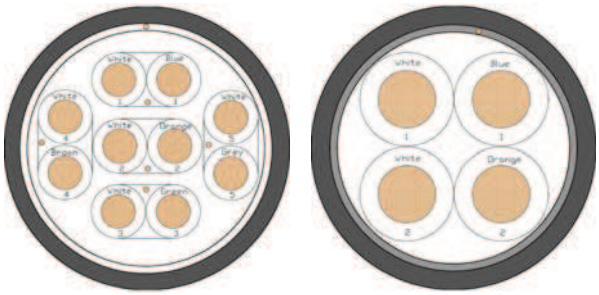
--These cables are not to be regarded as power cables or for the direct connection of equipment to main power supplies.



Multi-Pair Data Cables

Overall Screen, Pair

Product Code	No. of pairs	Cable Diameter mm	Approximate Weight kg/km
4001	1	4.17	18.4
4002	2	6.28	29.1
4003	3	6.85	38.2
4004	4	7.46	45.2
4006	6	9.02	63.5
4008	8	10.07	77.5
4010	10	11.36	92.2
4012	12	12.13	114.3
4014	14	12.72	127.1
4016	16	13.80	152.3
4018	18	14.50	166.2
4020	20	15.47	187.3
4022	22	16.27	202.1
4024	24	17.24	224.3
4026	25	17.24	229.4

Individually & Overall Screen, Pair

Product Code	No. of pairs	Cable Diameter mm	Approximate Weight kg/km
4102	2	6.88	37.0
4103	3	7.50	49.7
4104	4	8.19	60.1
4106	6	9.92	85.7
4108	8	11.11	106.5
4110	10	12.56	128.2
4112	12	13.38	157.8
4114	14	14.04	177.3
4116	16	15.21	210.4
4118	18	16.00	231.2
4120	20	17.07	259.9
4122	22	17.97	281.6
4124	25	19.04	311.5

Overall Screen, PE compound sheath - Underground/Outdoor use

Product Code	No of pairs	Cable Dia. mm	D.c Resistance@20ºC, /100m	Characteristic
1117	1	5.2	9.0	Black Sheath
1127	2	5.4	9.0	Black Sheath
1227	2	5.4	9.0	Jelly-filled, Black Sheath
1137	3	5.8	9.0	Black Sheath
1157	5	7.5	9.0	Black Sheath

8723 Eqv. 2 pairs 22 AWG Data Cable (ACA 008 Approved):

Product Code	Conductor Type	Insulation Material	Shield Type	Jacket Material	Cable Overall Diameter (mm)	Mutual Capacitance pF/m	Wire to Scr. Capacitance pF/m	Cond resist d.c. @ 20ºC (Ω/km)
4302	Plain Cu (7/0.25mm)	Polypropylene (PP) Pair 1: Red &Black Pair 2: Green &White	Individually (Polyester/ Al Foil), 100% coverage, with 7/0.25mm TC Drain wires	PVC V75 (Grey)	4.3	115	200	56

8761 Eqv. 1 pairs 22 AWG Data Cable (ACA 008 Approved):

Product Code	Conductor Type	Insulation Material	Shield Type	Jacket Material	Cable Overall Diameter (mm)	Mutual Capacitance pF/m	Wire to Scr. Capacitance pF/m	Cond resist d.c. @ 20ºC (Ω/km)
4201	Plain Cu (7/0.25mm)	Polypropylene (PP) Clear & Black	Overall (Polyester/ Al Foil), 100% coverage, with 7/0.25mm TC Drain wires	PVC V75 (Grey)	4.45	79	150	56

Security Cables to ACA 008

Applications

WW Cables' security cable is broadly used in security, automotive, control, etc.

Configuration

	Series 1 – Standard	Series 2 – Outdoor / Underground use
Conductor:	plain annealed copper	plain annealed copper
Insulation:	flame retardant polyvinyl chloride (PVC)	flame retardant polyvinyl chloride (PVC)
Laid -up:	twisted pairs laid-up around centre	twisted pairs laid -up around centre, jelly filled, and covered with polyester tape
Sheath:	flame retardant polyvinyl chloride (PVC)	polyethylene (PE) compound
Sheath identification	Brown or White or Grey	Black – Ultraviolet radiation stabilised, Water proof, vermin resistance

Colour Chart

No of core	Core colour
4	White, Blue, Red, Black
6	White. Blue, Red, Black, Green, Yellow
8	White, Blue, Red, Black, Green, Yellow, Brown, Orange

Technical Data

Conductor operating temperature: -30°C ~ 75°C.

Maximum rated voltage: 300V rms

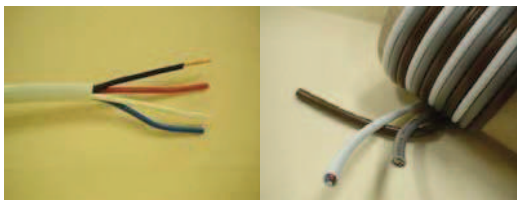
-- These cables are not to be regarded as power cables or for the direct connection of equipment to main power supplies.

1. Standard Type:

Product Code	Number of cores	Nominal Area mm^2	Strands No./mm	Cable Avg. Dia. mm
1407	4	0.23	7/0.20	3.4
1607	6	0.23	7/0.20	4.0
1807	8	0.23	7/0.20	5.8
1414	4	0.47	7/0.20	4.5
1614	6	0.47	14/0.20	5.1
1814	8	0.47	14/0.20	5.9

2. Outdoor/Underground Type:

Product Code	Number of cores	Nominal Area mm^2	Strands No./mm	Cable Avg. Dia. mm	Characteristic
1044	4	0.44	14/0.20	4.7	Black Sheath
1144	4	0.44	14/0.20	4.9	Jelly-filled, Black Sheath
1164	6	0.44	14/0.20	5.8	Jelly-filled, Black Sheath



Local Area Network (LAN) Cable - CATEGORY (CAT 5E) & CATEGORY (CAT 6)

Applications

The WW CABLES' LAN cable is designed for use in horizontal distribution and backbone cabling installation.

Standards: IEEE 802.3, AS 3080, ISO 110801, ANSI / TIA / EIA 568A/B

Category 5E (CAT 5E)

	CAT 5e UTP	CAT 5e FTP	CAT 5e S-FTP	Patch CAT 5e UTP	Pat ch CAT 5e FTP	Patch CAT 5e S-FTP
Conductor:	Cu, 24 AWG Solid	Cu ,24 AWG Solid	Cu ,24 AWG Solid	Cu, 24 AWG Strands	Cu, 24 AWG Strands	Cu, 24 AWG Strands
Insulation:	Polyethylene (PE)	Polyethylene (PE)	Polyethylene (PE)	Polyethylene (PE)	Polyethylene (PE)	Polyethylene (PE)
Screen :	-	Polyester/Al Foil	Polyester/Al Foil + Tinned Cu -Braid	-	Polyester/Al Foil	Polyester/Al Foil + Tinned Cu -Braid
Sheath	PVC 75ºC	PVC 75ºC	PVC 75ºC	PVC 75ºC	PVC 75ºC	PVC 75ºC
Core identification	Pair 1: White/Blue stripe, Blue; Pair 2: White/Orange stripe, Orange Pair 3: White/Green stripe, Green; Pair 4: White/Brown stripe, Brown					
Sheath identification	Standard: Blue, or as request.					
Optional	Jelly filled, polyethylene sheathed (Black) for outdoor/underground use is available on request					

Operating temperature: -25ºC ~ 75ºC
Rated voltage: 30V

-- The maximum conductor temperature specified is based on the properties of the insulation material but in practice may need to be derated to take account of joints and terminations and environmental conditions.
-- The cables are not to be regarded as power cables or for the direct connection of equipment to main power supplies or low impedance source.

Standard LAN cable:

Part Number	Cable Type	Conductor Strands	Core Dia.	Cable Dia.	Approx. Weight	Characteristic Impedance at 1 to 100MHz	Relative Propagation Velocity
4105	CAT 5e UTP	1 / 0.51mm	1.0 mm	5.2	27 kg/km	100±15	66%
4105-F	CAT 5e FTP	1 / 0.51mm	1.0 mm	5.3	40 kg/km	100±15	66%
4105-S	CAT 5e S-FTP	1 / 0.51mm	1.0 mm	5.6	54 kg/km	100±15	66%
4305	Patch CAT 5e UTP	7 / 0.2mm	1.02 mm	5.5	34 kg/km	100±15	66%
4305-F	Patch CAT 5e FTP	7 / 0.2mm	1.02 mm	5.8	38 kg/km	100±15	66%
4305-S	Patch CAT 5e S-FTP	7 / 0.2mm	1.02 mm	5.9	52 kg/km	100±15	66%

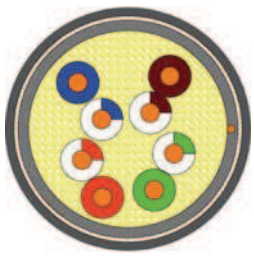
Outdoor/Underground Type

Part Number	Cable Type	Conductor Strands	Core Dia.	Cable Dia.
1255	CAT 5e UTP, PE sheath, Black sheath(UV stabilised), jelly-filled	1 / 0.51mm	1.0 mm	5.2
1254	CAT 5e FTP, PE sheath, Black sheath(UV stabilised), jelly-filled	1 / 0.51mm	1.0 mm	5.6
1356	CAT 5e S-FTP, PE sheath,Black sheath(UV stabilised), jelly-filled	1 / 0.51mm	1.0 mm	6.4

Transmission performance

Frequency (MHz)	Return Loss (dB)	Attenuation (dB/100m)	NEXT (dB)	ELFEXT (dB)
1	20.0	2.0	65	64
4	23.0	4.1	56	52
10	25.0	6.5	50	44
16	25.0	8.2	47	40
20	25.0	9.2	46	38
31.25	23.6	11.7	43	34
62.5	21.5	17.0	38	28
100	20.1	22.0	35	24

-- The tolerance of the cable transmission performance is 3% for jelly-filled LAN cable



Category 6 (CAT 6)

	CAT 5e UTP	CAT 5e FTP	CAT 5e S -F TP	Patch CAT 5e UTP	Pat ch CAT 5e FTP	Patch CAT 5e S-FTP
Conductor:	Cu, 24 AWG Solid	Cu ,24 AWG Solid	Cu ,24 AWG Solid	Cu, 24 AWG Strands	Cu, 24 AWG Strands	Cu, 24 AWG Strands
Insulation:	Polyethylene (PE)	Polyethylene (PE)	Polyethylene (PE)	Polyethylene (PE)	Polyethylene (PE)	Polyethylene (PE)
Separator	Cross Groove	Cross Groove	Cross Groove	Cross Groove	Cross Groove	Cross Groove
Screen :	-	Polyester/Al Foil	Polyester/Al Foil + Tinned Cu -Braid	-	Polyester/Al Foil	Polyester/Al Foil + Tinned Cu -Braid
Sheath	PVC 75ºC	PVC 75ºC	PVC 75ºC	PVC 75ºC	PVC 75ºC	PVC 75ºC
Core identification	Pair 1: White/Blue stripe, Blue; Pair 2 White/Orange stripe, Orange Pair 3: White/Green stripe, Green; Pair 4: White/Brown stripe, Brown					
Sheath identification	Standard: Blue, or as request.					

Operating temperature: -25ºC ~ 75ºC
Rated voltage: 30V

-- The maximum conductor temperature specified is based on the properties of the insulation material but in practice may need to be derated to take account of joints and terminations and environmental conditions.
-- The cables are not to be regarded as power cables or for the direct connection of equipment to main power supplies or low impedance source.

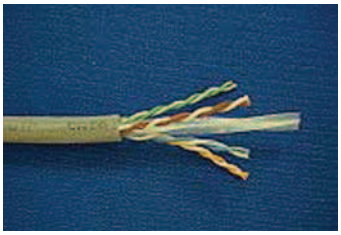
Standard LAN cable:

Part Number	Cable Type	Conductor Strands	Core Dia.	Cable Dia.	Characteristic Impedance at 1 to 100MHz	Relative Propagation Velocity
4106	CAT 6 UTP	1 / 0.51mm	1.0 mm	6.0±0.2mm	100±15	65%
4106-F	CAT 6 FTP	1 / 0.51mm	1.0 mm	6.3±0.2mm	100±15	65%
4106-S	CAT 6 S-FTP	1 / 0.51mm	1.0 mm	6.6±0.2mm	100±15	65%
4306	Patch CAT 6 UTP	7 / 0.2mm	1.02 mm	6.3±0.2mm	100±15	65%
4306-F	Patch CAT 6 FTP	7 / 0.2mm	1.02 mm	6.8±0.2mm	100±15	65%
4306-S	Patch CAT 6 S-FTP	7 / 0.2mm	1.02 mm	7.1±0.2mm	100±15	65%

Transmission performance

Frequency (MHz)	Return Loss (dB)	Attenuation (dB/100m)	NEXT (dB)	ELFEXT (dB)
1	20.0	1.9	74	68
4	23.0	3.7	65	56
10	25.0	5.9	59	46
16	25.0	7.5	56	44
20	25.0	8.4	55	42
31.25	23.6	10.6	52	36
62.5	21.5	15.4	47	32
100	20.1	19.8	44	28
200	18.0	29.0	40	22
250	17.3	32.8	38	20

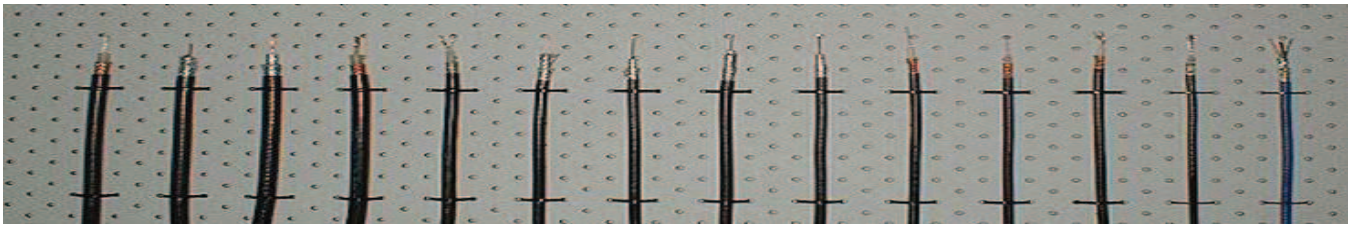
-- The tolerance of the cable transmission performance is 3% for jelly-filled LAN cable



Coaxial Cables

Applications

WW Cables' Coaxial Cables are manufactured, where applicable, based on the requirements of Mil spec. (modified) as well as other applicable standards, such as IEC 96. WW Cables' Coaxial Cables are broadly used in the transmission of high frequency signals.



Standard Type

Product Code	Cable Type	Conductor Type	Insulation Material	Shield Type	Jacket Material	Cable Overall Diameter(mm)	Nominal Capacitance (pF/m	Nominal Impedance (Ω)
3006	RG 6/U	Plain Cu (1/1.02mm)	Foamed PE	Plain Cu Braid (60% coverage)	PVC V75 (Black)	6.9	53.1	75
3011	RG 11 A/U	Plain Cu (7/ 0.40mm)	Foamed PE	Plain Cu Braid 95% coverage	PVC V75 (Black)	10.3	67.2	75
3058	RG 58 C/U	Tinned Cu (19/0.18mm)	Solid PE	Polyester/Al + Tinned Cu Braid 93% coverage	PVC V75 (Black)	4.92	100	50
3159	RG 59 B/U	Plain Cu (1/0.58mm)	Solid PE	Plain Cu Braid 95% coverage	PVC V75 (Black)	6.15	67.2	75
1359	RG 59 B/U Outdoor	Plain Cu (1/0.58mm)	Solid PE	Plain Cu Braid 95% coverage	PVC V75 (Black)	6.25	67.2	75
3359	RG 59 C/U	Plain Cu (7/0.25mm)	Foamed PE	Plain Cu Braid 95% coverage	PVC V75 (Black)	6.22	66.1	75
3062	RG 62 A/U	Cu coated steel (CCS) (1/0.643mm)	Foamed PE	Plain Cu Braid 95% coverage	PVC V75 (Black)	6.15	42.3	93
3179	RG 179	Tinned Cu (7/0.10mm)	Solid PE	Tinned Cu Braid 95% coverage	PVC V75 (Black)	2.54	64	75
3213	RG 213 /U	Plain Cu (7/0.76mm)	Solid PE	Plain Cu Braid 97% coverage	PVC V75 (Black)	10.3	100	50

Cable TV Type

Product Code	Cable Type	Conductor Type	Insulation Material	Shield Type	Jacket Material	Cable Overall Diameter (mm)	Nominal Capacitance (pF/m)	Nominal Impedance (Ω)
3016	RG 6 Quad Shield	Plain Cu (1/1.02mm)	Foamed PE	Al foil / 60% Al Braid / Al foil / 40% Al Braid	PVC V75 (Black)	7.54	53.1	75
3026	RG 6/U Flooded	Plain Cu (1/1.02mm)	Foamed PE		PVC V75 or PE (Jelly-filled)	7.66	53.1	75
3036	RG 6/U	Plain Cu (1/1.02mm)	Foamed PE	Plain Al Braid (40%coverage)	PVC V75 (Black)	6.8	53.1	75
3036-A	RG 6/U	Cu coated steel (CCS) (1/1.02mm)	Foamed PE	Plain Al Braid (40%coverage)	PVC V75 (Black)	6.8	53.1	75
3111	RG 11 Quad Shield	Plain Cu (1/ 1.63mm)	Foamed PE	Al foil / 60% Al Braid / Al foil / 40% Al Braid	PVC V75 (Black)	10.9	53.2	75
3211	RG 11 Flooded	Plain Cu (1/ 1.63mm)	Foamed PE		PVC V75 or PE (Jelly-filled)	11.2	53.2	75
3459	RG 59 TV Down -lead	Plain Cu (1/0.8mm)	Cellular PE	Plain Cu Braid 60% coverage	PVC V75 (Black)	6.60	69	75

Composite RGB 75 Ω Monitor Cable (Product Code: 3088)

Applications

WW Cables' RGB is manufactured for use on VGA colour monitors or equivalent.

Technical Data

Operating Temperature: -25 ~ +75ºC
Rated Voltage: 30V
Cable overall Diameter: 6.2 mm

Configuration

-- 3 x 75 Ohm Coaxial Cable (Red, Blue, Green)
(Stranded Tinned Copper conductor 7/0.128mm, foam polyethylene insulated, individually shielded with spiralled tinned annealed copper)
-- 7 x Signal Wires (White, Yellow, Red, Black, Orange, Brown, Grey)
(Stranded 7/0.20mm Tinned Copper conductors, PVC V75 insulated)
-- Overall shield of Al / Mylar foil and 7/0.20mm drain wire and 85% Tinned Copper braid, black PVC V75 saw-toothed sheathing.

Composite Security Cable (Product Code: 8598)
RG59 B/U UL Style 1354 and Figure 8, 18 AWG, PVC sheathed

Applications

WW Cables' Composite security cable is designed for easy installation of CCTV.

Configuration (RG 59 B/U and FIG 8 AWG 18)
Cabe 1 - RG59 B/U

Product Code	Cable Type	Conductor Type	Insulation Material	Shield Type	Jacket Material	Cable Overall Diameter (mm)	Nominal Capacitance (pF/m)	Nominal Impedance (Ω)
3159	RG 59 B/U Mil Type	Plain Cu (1/0.58mm)	Solid LDPE	Plain Cu Braid 95% coverage	PVC V75 (Black)	6.15	67.2	75

Cable 2 - AWG 18, Figure 8 - 2242

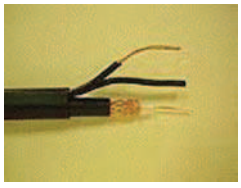
-- Conductor: Plain annealed copper class 5 Flexible stranded.
-- Insulation Polyvinylchloride compound PVC V75 to AS3808
Core Identification: Black / White trace

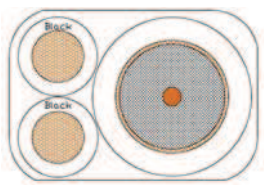
Product Code	Cable strands (no/mm)	Insulation thickness (mm)	Cable Diameter (mm)	Conductor resistance d.c. @ 20ºC (Ω/km)
2242	24/0.2	0.5	2.8 x 5.6	26 Ω/km,

Technical data

Temperature Range: -30C ~ 75C.
Short circuit temperature 160C
-- These cables are not to be regarded as power cables or for the direct connection of equipment to main power supplies.

Product Code	Cable Diameter (mm)	Composite cable Sheath material
8598	7.9±0.1 x 10.1±0.2	Flame retardant PVC V75, UV stabilise Black sheath





Composite Telecommunication Cable (Product Code: 4421)

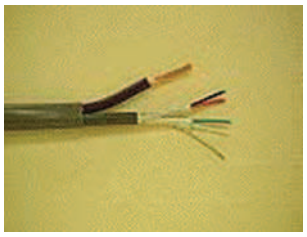
Configuration

Cable 1 - 8723 Eqv. Data Cable:

Product Code	Cable Type	Conductor Type	Insulation Material	Shield Type	Jacket Material	Cable Overall Diameter (mm)	Mutual Capacitance (pF/m)	Wire to Scr. Capacitance (pF/m)	Conductor resistance d.c. @ 20ºC (Ω/km)
4302	8723 Eqv. Data Cable	Plain Cu (7/0.25 mm)	Polypropylene (PP) Pair 1: Red & Black Pair 2: Green & White	Individually scr. (Polyester/ Al Foil), 100% coverage, with 7/0.25mm TC Drain wires	PVC V75 (Grey)	4.3	115	200	56

Cable 2 - Earth Wires:

Conductor Type	Insulation Material	Cable Overall Diameter (mm)	Conductor d.c.Resistance @ 20ºC (Ω/km)	Current Rating (A)	Colour
Plain Cu (50/0.25 mm)	PVC V90	9.1	5.09	20	Green/Yellow , Black



Composite Home Automation Cable (Product Code: 8022)

Applications

WW Cables' Composite Home Automation Cable is designed to ease pre-wiring in new homes, and retrofitting in existing homes, for home automation, home networking, etc.

Configuration

--2 x CAT 5E UTP (P/N 4105), (Cable Identifications, Cable 1 - White Outer sheath, Cable 2 - Grey Outer Sheath)
--2 x RG 6 CATV Quad Shield (P/N 3016), (Cable Identifications, Cable 1 - White Outer sheath, Cable 2 - Black Outer Sheath
--Laid-up cable sheathed with Flame-retardant PVC V75, (Black)
--Cable Overall Diameter: 16.10 mm

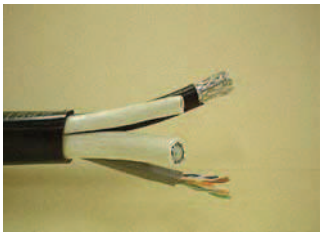


FIGURE 8 Connecting Wires / Speaker Wires OFC

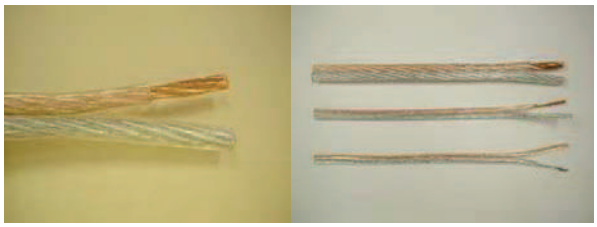
Applications

WW Cables' Figure 8 Connecting Wires are manufactured for the wiring of electronic and allied equipment, extension speakers, security systems, garden lighting, etc.

Configuration

Product Code	Conductor Type	Strands (no./mm)	Insulation Material	Cable Overall Diameter (mm)	Rated Voltage (V)	Operating Temperature (°C)	Conductor d.c. resistance@ 20°C (Ω/km)	Sheath Identification
Figure 8 Connecting Wires(Tinned Cu)								
2142	Tinned annealed copper 2x0.45mm2	14/0.20	PVC V75	1.9 x 3.8	240	-25 ~ 70°C	41.08	Black/White trace
2242	Tinned annealed copper 2x0.75mm2	24/0.20	PVC V75	2.8 x 5.6	240	-25 ~ 70°C	23.97	Black/White trace
Speaker Wires OFC(1x Tinned Cu and 1x Plain Cu)								
1264	2x2.0mm2	64/0.20	PVC V75	3.9 x 7.7	450	-25 ~ 70°C	8. 91	Transparent
1284	2x2.5mm2	84/0.20	PVC V75	4.5 x 8.9	450	-25 ~ 70°C	6.8 6	Transparent
1204	2x4.0mm2	130/0.20	PVC V75	4.6 x 9.1	450	-25 ~ 70°C	4.4 7	Transparent
1206	2x6.0mm2	192/0.20	PVC V75	5.7 x 11.3	450	-25 ~ 70°C	2.97	Transparent
2010	2x10.0mm2	325 /0.20	PVC V75	7.6 x 15.1	450	-25 ~ 70°C	1.78	Transparent

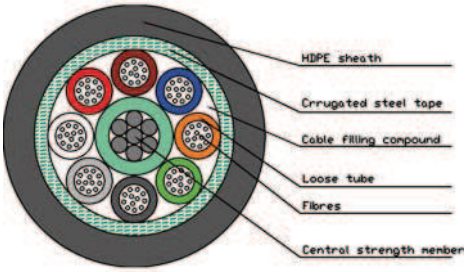
-- All other cables listed above are for low voltage use only, and not recommended for connection to mains supply.

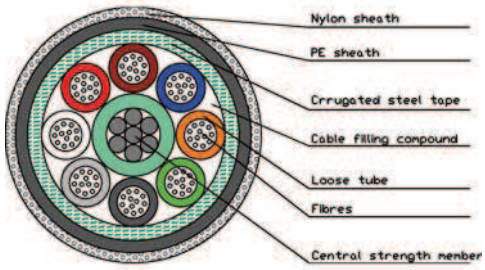


Loose Tube Optical Fibre

Standard compliance: IEC 60794-1-1 Ed. 2.0: Optical fibre cables - Part 1-1: Generic specification - General

Type DCTS Cable Configuration



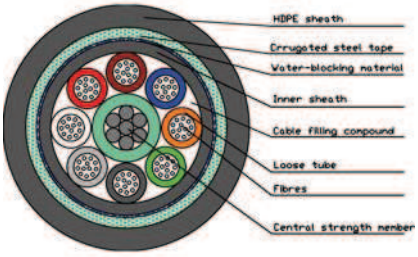


No. of Fibres	02 – 30	32 – 36	38 – 60	62 – 72	74 – 96	98 – 120	122 – 144	146 – 216
Fibres per tube (no.)	6	6	12	12	12	12	12	12
Stranded unit (no.)	5	6	5	6	8	10	12	18
Approx. Cable diameter (mm)	10.2	10.6	11.2	12.0	13.6	15.4	17.2	17.2

Cable Mechanical Characteristics

No. of Fibres		02 – 30	32 – 36	38 – 60	62 – 72	74 – 96	98 – 120	122 – 144	146 – 216
Tensile Strength (N)	Long term	600	1000	1000	1000	1000	1000	1000	1000
	Short term	1500	3000	3000	3000	3000	3000	3000	3000
Crush Resistance (N/100m)	Long term	300	300	300	300	300	300	300	300
	Short term	1000	1000	1000	1000	1000	1000	1000	1000
Bending Radius (mm)	During installation	20 x cable diameter							
	Set	10 x cable diameter							

Type DCTY53 Cable Configuration



No. of Fibres	02 – 36	38 – 60	62 – 72	74 – 96	98 – 120	122 – 144	146 – 216
Fibres per tube (no.)	6	12	12	12	12	12	12
Stranded unit (no.)	6	5	6	8	10	12	18
Approx. cable diameter (mm)	13.8	14.6	15.0	16.4	17.8	19.5	19.5
Approx. weight (kg / km)	188	208	215	254	290	340	345

Cable Mechanical Characteristics

No. of Fibres		02 – 36	38 – 60	62 – 72	74 – 96	98 – 120	122 – 144	146 – 216
Tensile Strength (N)	Long term	1000	1000	1000	1000	1000	1000	1000
	Short term	3000	3000	3000	3000	3000	3000	3000
Crush Resistance (N/100m)	Long term	1000	1000	1000	1000	1000	1000	1000
	Short term	3000	3000	3000	3000	3000	3000	3000
Bending Radius (mm)	During installation	20 x cable diameter						
	Set	10 x cable diameter						

Optical Characteristics

		50 / 125 m	62.5 / 125 m	G.652	G.655
Attenuation (+20ºC)	@ 850 nm	3.0 dB / km	3.0 dB / km		
	@ 1300 nm	1.0 dB / km	1.0 dB / km		
	@ 1310 nm			0.36 dB / km	0.40 dB / km
	@ 1550 nm			0.22 dB / km	0.23 dB / km
Bandwidth (Class A)	@ 850 nm	05 MHz.km	02 MHz.km		
	@ 1300 nm	010 MHz.km	06 MHz.km		
Numerical Aperture		0.200±0.015 NA	0.275±0.015 NA		
Cable cut-off wavelength λcc				1260 nm	1480 nm

Environmental Characteristics

Storage temperature: -40ºC ~ +70ºC
Installation temperature: -5ºC ~ +50ºC
Operating temperature: -40ºC ~ +70ºC

Despatch Length

Standard reel length: 2000m, other lengths available on request.