

Cable Solutions for
TELECOMMUNICATIONS

PRODUCT OVERVIEW



B3 Cable Solutions leads the world in cable manufacturing with a presence in Europe, Asia and the Middle East. As the fastest growing cable manufacturer in the world, B3 now operates in more market sectors and countries than ever before, delivering innovative value added services alongside an extensive range of cable products.

B3 serves a prestigious global customer base with cabling products and world-class value added services to the following market sectors:

- Telecommunications
- Buildings & Industrial
- Utilities
- Railways

B3's product range is extensive and delivers quality approved products for a wide variety of applications. The company has a unique blend of business skills, industry knowledge and continuous improvement expertise to create and deliver a portfolio of innovative value added services. B3's portfolio has been developed with the benefit and feedback of real life customer experiences. Customers use a range of products and solutions to streamline processes, reduce overhead and logistics costs and improve the efficiency of their cable supply chain.

B3's manufacturing facilities and cable products are of the highest quality, but what sets B3 apart is world class service. If you're looking for any of these cabling solutions, then you should talk to B3:

- Multi Pair
- Exchange
- ADSL/ADSL2
- ISDN
- VDE
- Optical Fibre
- European Norms
- NF
- Dropwire
- Jumper Wire
- Aerial
- Armoured
- BT
- ANSI/ICEA
- Middle East Telecoms

Visit B3 at www.b3cables.com or contact your local office (see back page for details).

This brochure represents only a small selection of the products B3 can supply.

OPTICAL FIBRE CABLE FOR TELECOMMUNICATIONS TRUNK AND ACCESS NETWORKS

Dielectric Loose Tube for Blown installation technique

Dielectric strength member, gel filled loose tubes with 12 singlemode fibres per tube (G.652 or G.655), fillers where required for cable geometry, water swellable elements of tapes or yarns, peripheral strength elements of aramid or glass (optional), PE outer sheath

B3 P/N	No. of Fibres	No. Tubes	No. Fibres Per Tube	Cable Diameter (mm)	Min Bend Radius (mm)
E-012-SM2-L12-D-W-P	12	1	12	9.5	114.0
E-024-SM2-L12-D-W-P	24	2	12	9.5	114.0
E-048-SM2-L12-D-W-P	48	4	12	9.5	114.0
E-096-SM2-L12-D-W-P	96	8	12	11.0	132.0
E-144-SM2-L12-D-W-P	144	12	12	13.6	163.2

Please note: The above cables are available in the range 12 - 256 fibres

The cables are also available in LS-HFFR version, with an external sheath of Low Smoke Flame Retardant compound: I-012-SM2-L12-D-W-T

The cables have been tested to show compliance with European Norm (EN) 187000, with reference to parts;

501 - Max Tensile Load, 504 - Crush, 513 - Bend, 601 - Temperature Cycling and 605B - Water Penetration



Dielectric Loose Tube for Pulled-in installation technique

Dielectric strength member, gel filled loose tubes with 12 singlemode fibres per tube (G.652 or G.655), fillers where required for cable geometry, water swellable elements of tapes or yarns, peripheral strength elements of aramid or glass, PE outer sheath

B3 P/N	No. of Fibres	No. Tubes	No. Fibres Per Tube	Cable Diameter (mm)	Min Bend Radius (mm)
E-012-SM2-L12-D-W-KP	12	1	12	12.5	187.5
E-024-SM2-L12-D-W-KP	24	2	12	12.5	187.5
E-048-SM2-L12-D-W-KP	48	4	12	12.5	187.5
E-096-SM2-L12-D-W-KP	96	8	12	17.0	255.0
E-144-SM2-L12-D-W-KP	144	12	12	20.0	300.0

Please note: The above cables are available in the range 12 - 256 fibres

The cables are also available in LS-HFFR version,

with an external sheath of Low Smoke Flame Retardant compound: I-012-SM2-L12-D-W-KT

The cables are also available in double sheath construction version: E-012-SM2-L12-D-W-PKP

The cables have been tested to show compliance with European Norm (EN) 187000, with reference to parts;

501 - Max Tensile Load, 504 - Crush Values, 513 - Bend, 601 - Temperature Cycling, and 605B - Water Penetration

Dielectric Loose Tube for Short-span aerial installation technique

Dielectric strength member, gel filled loose tubes with 12 singlemode fibres per tube (G.652 or G.655), fillers where required for cable geometry, water swellable elements of tapes or yarns, PE inner sheath, peripheral strength elements of aramid or glass, PE outer sheath

B3 P/N	No. of Fibres	No. Tubes	No. Fibres Per Tube	Cable Diameter (mm)	Min Bend Radius (mm)
A-012-SM2-L12-D-W-PKP	12	1	12	14.5	217.5
A-024-SM2-L12-D-W-PKP	24	2	12	14.5	187.5
A-048-SM2-L12-D-W-PKP	48	4	12	14.5	187.5
A-096-SM2-L12-D-W-PKP	96	8	12	19.0	255.0
A-144-SM2-L12-D-W-PKP	144	12	12	22.0	300.0

Please note: The above cables are available in the range 12 - 256 fibres

The cables have been tested to show compliance with European Norm (EN) 187000, with reference to parts;

501 - Max Tensile Load, 504 - Crush Values, 513 - Bend, 601 - Temperature Cycling, and 605B - Water Penetration

Monotube Dielectric Cable for Drop applications

Dielectric strength member, gel filled loose tube with up to 24 fibres (G.652 or G.657), or multimode fibres (G.651 - OM1, OM2 or OM3), water swellable elements of tapes or yarns, peripheral strength elements of aramid or glass, PE outer sheath

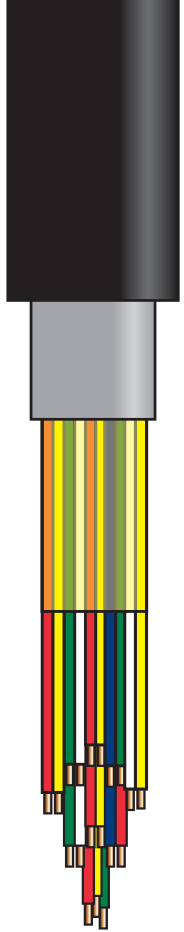
B3 P/N	No. of Fibres	No. Tubes	No. Fibres Per Tube	Cable Diameter (mm)	Min Bend Radius (mm)
E-012-SM2-C12-D-W-EP	12	1	12	7.2	72.0
E-012-SM7-C12-D-W-EP	12	1	12	7.2	72.0
E-012-OM1-C12-D-W-EP	12	1	12	7.2	72.0
E-012-OM2-C12-D-W-EP	12	1	12	7.2	72.0
E-012-OM3-C12-D-W-EP	12	1	12	7.2	72.0

Please note: The cables are also available in LS-HFFR version,

with an external sheath of Low Smoke Flame Retardant compound: I-012-SM2-C12-D-W-ET

The cables have been tested to show compliance with European Norm (EN) 187000, with reference to parts;

501 - Max Tensile Load, 504 - Crush Values, 513 - Bend, 601 - Temperature Cycling, and 605B - Water Penetration



COPPER MULTIPAIR CABLE FOR TELECOMMUNICATIONS TRUNK AND ACCESS NETWORKS

HIGH PERFORMANCE ADSL CABLE

Typical Cable Applications:

Suitable for use in exchanges where a higher transmission performance is required

CENTRAL OFFICE INTERCONNECT

Plain solid copper (PACW) conductors of 0.4 mm, PE insulation, unit twin construction, polyester tape(s) core wrap, TACW braided-screen, grey Halogen Free Flame Retardant (HFFR) Sheath

B3 Cable Code	No. Pairs	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Max O/All Diameter (mm)	Max Average Resistance (ohms)	Max Average Mutual Cap (nF/km)	NEXT @ 1MHz	Attenuation @ 1MHz (dB/Km)	Characteristic Impedance (ohm/km)
I-0024-P040-001-55-D-TN-TI28	24	0.40	1.00	10.5	153	60	55	31	135
I-0096-P040-001-55-D-TN-TI28	64	0.40	1.00	14.6	153	60			
I-0064-P040-001-55-D-TN-TI28	96	0.40	1.20	20.0	153	60			
I-0128-P040-001-55-D-TN-TI28	128	0.40	1.20	22.5	153	60			
I-0144-P040-001-55-D-TN-TI28	144	0.40	1.20	24.0	153	60			

Tinned solid copper (TACW) conductors of 0.4 and 0.6 mm, PE insulation, pairs constructions in concentric units, 1 or more core wrap tapes, grey Halogen Free Flame Retardant (HFFR) Sheath - optional collective screen and drain wire

B3 P/N	No. Pairs	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Max O/All Diameter (mm)	Max Average Resistance (ohms)	Max Average Mutual Cap (nF/km)	NEXT @ 1MHz	Attenuation @ 1MHz (dB/Km)	Characteristic Impedance (ohm/km)
I-0001-P040-060-50-D-T-HT	1	0.4	1.0	3.5	153	50	50	23	100
I-0002-P040-060-50-D-T-HT	2	0.4	1.0	5					
I-0005-P040-060-50-D-T-HT	5	0.4	1.0	6					
I-0010-P040-060-50-D-T-HT	10	0.4	1.0	8					
I-0050-P060-060-50-D-T-HT	50	0.6	1.3	19.5	66			20	

Plain solid copper conductors, PE insulation, unit twin construction in or 8 or 10 pair units, Polyester tape cable core wrap, Halogen Free Flame Retardant (HFFR) Sheath Compliant with British Telecom Standard CW1601

B3 P/N	No. Pairs	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Max O/All Diameter (mm)	Max Average Resistance (ohms)	NEXT @ 1 MHz (dB)	Attenuation @ 1 MHz (dB/km)	Characteristic Impedance (ohm/km)
I-0032-P050-001-62-T-1601	32	0.50	0.70	12.2	97.8	62	26	100
I-0064-P050-001-62-T-1601	64	0.50	0.80	15.7				
I-0100-P050-001-62-T-1601	100	0.50	1.00	15.7				

Plain solid copper conductors, PE insulation, pair construction in 24 pair units, each unit with a non-hygroscopic tape, tinned copper drain wire and screen of aluminium-polyester-aluminium tape. Non-hygroscopic core wrap, 0.5 mm tinned copper drain wire and screen of aluminium-polyester-aluminium tape, grey Halogen Free Flame retardant sheath
Compliant with 1AC022850001 DSZZA specification

B3 P/N	No. Pairs	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Max O/All Diameter (mm)	Max Conductor Resistance (ohms/km)	NEXT @ 1 MHz (dB)	Attenuation @ 1 MHz (dB/km)	Characteristic Impedance (ohm/km)
I-0024-P040-001-52-LT-1AC	24	0.40	0.80	9.1	146.8	52	33	n/a
I-0072-P040-001-52-LT-1AC	72	0.40	1.00	16.5	146.8	52	33	
I-0096-P040-001-52-LT-1AC	96	0.40	1.00	19.5	146.8	52	33	



OUTSIDE PLANT

Plain solid copper conductors of 0.4 and 0.5 mm, PE insulation, pairs constructions in concentric units, filled, 1 or more core wrap tapes, HDPE sheath incorporating a longitudinally applied aluminium-copolymer tape

B3 P/N	No. Pairs	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Max O/All Diameter (mm)	Max Average Resistance (ohms)	Max Average Mutual Cap (nF/km)	PSNEXT @ 1MHz	Attenuation @ 1MHz (dB/Km)	Characteristic Impedance (ohm/km)
E-0006-P050-030-44-AP-TK59	6	0.50	1.80	11.0	95	50	44	20.4	100
E-0020-P050-030-44-AP-TK59	20	0.50	1.80	15.0					
E-0100-P050-030-44-AP-TK59	100	0.50	2.00	25.7					
E-0400-P050-030-44-AP-TK59	400	0.50	2.60	46.8					
E-1000-P050-030-44-AP-TK59	1000	0.50	3.00	70.0					
E-0100-P040-030-44-AP-TK59	100	0.40	1.80	21.5	148	50	44	23.3	100
E-0200-P040-030-44-AP-TK59	200	0.40	2.00	30.0					
E-0400-P040-030-44-AP-TK59	400	0.40	2.20	38.0					
E-1000-P040-030-44-AP-TK59	1000	0.40	3.00	57.8					

Note: Also available in self-supporting figure 8

CENTRAL OFFICE / EXCHANGE CABLES

Typical Cable Applications:

Used primarily in telephone exchange buildings and PABX systems

Plain solid copper conductors of 0.6 mm, solid PE insulation, pair construction in concentric layers, 1 or more core wrap tapes, TACW corrugated wire (0.6 mm), helically applied aluminium tape and PVC sheath
Compliant with Italian Telecom Standard (Italian Standard) CT-1285

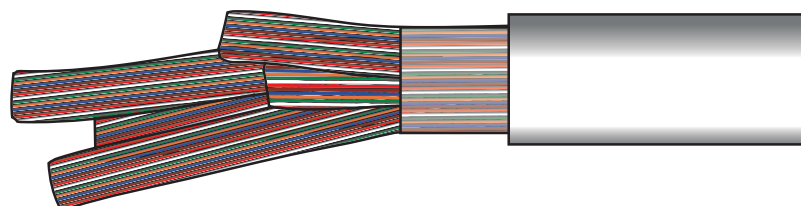
B3 P/N	No. Pairs	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Nom O/All Diameter (mm)	Max Average Resistance (ohms)	Max Average Mutual Cap (nF/km)	NEXT @ 1MHz	Attenuation @ 1MHz (dB/Km)	Characteristic Impedance (ohm/km)
I-0010-P060-001-50-LV-1285	10	0.60	1.6	13.2	66.6	55	50	19	160
I-0020-P060-001-50-LV-1285	20	0.60	1.8	15.8					
I-0030-P060-001-50-LV-1285	30	0.60	1.8	19.0					
I-0050-P060-001-50-LV-1285	50	0.60	2.0	22.5					
I-0100-P060-001-50-LV-1285	100	0.60	2.4	31.7					
I-0200-P060-001-50-LV-1285	200	0.60	3.0	43.9					

Plain solid copper conductors of 0.5mm, PE insulation, pair construction in concentric layers, 1 or more core wrap tapes, longitudinally applied aluminium-copolymer tape and low smoke zero halogen (HFFR) sheath
Compliant with Spanish ICT standards

B3 P/N	No. Pairs	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Nom O/All Diameter (mm)	Max Average Resistance (ohms)	Max Average Mutual Cap (nF/km)	NEXT @ 1MHz	Attenuation @ 1MHz (dB/Km)	Characteristic Impedance (ohm/km)
I-0025-P050-001-45-AV-ICT	26	0.50	1.1	11.5	91	52	45	21	100
I-0050-P050-001-45-AV-ICT	51	0.50	1.1	15.5	91	52			
I-0075-P050-001-45-AV-ICT	76	0.50	1.1	18.5	91	52			
I-0100-P050-001-45-AV-ICT	101	0.50	1.1	20.5	91	52			

Plain solid copper conductors of 0.6 mm, PE insulation, Quad construction, filled with Polyurethane, PE sheath
Compliant with Belgium Telecom Standard (Belgium Standard) SERIES 35

B3 P/N	No. Quads	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Max O/All Diameter (mm)	Max Average Lube Resistance (ohms)	NEXT @ 1MHz	Attenuation @ 1MHz (dB/Km)	Characteristic Impedance (ohm/km)
I-0002-Q060-001-55-U-P-SE35	1	0.60	2.10	7.5	130	55	21	115
I-0006-Q060-001-40-U-P-SE35	3	0.60	2.10	10.5	130	40		



Plain solid copper conductors of 0.8 mm, PVC insulation, quad unit construction, polyester tape(s) core wrap, continuity wire, aluminium polyester screen, green or red PVC sheath
Based on German Telecom Standard (Verband der Elektrotechnik) VDE 0815

B3 P/N	No. Quads	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Max O/All Diameter (mm)	Max Loop Resistance (ohms/km)	Max Mutual Cap (nF/km)	Max Capacitance Unbalance (pf/100m)
I-0004-Q080-001-00-LV-0815	2	0.80	1.00	6.5	73.2	100	200
I-0020-Q080-001-00-LV-0815	10	0.80	1.20	12.9	73.2	100	200
I-0032-Q080-001-00-LV-0815	16	0.80	1.20	14.9	73.2	100	200

Plain solid copper conductors of 0.4, 0.6 or 0.8 mm, PE insulation, quad construction, polyester tape(s) core wrap, continuity wire, aluminium polyester screen, grey PVC sheath
Option: Halogen Free Flame Retardant (HFFR) Sheath
Compliant with French Telecom Standard (Normes France) NF C 93-526-9 & NF C 93-527-8

B3 P/N	No. Quads	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Max O/All Diameter (mm)	Max Loop Resistance (ohms/km)	Max Average Mutual Cap (nF/km)	Capacitance Unbalance 95% of cases (pf)
I-0028-Q040-001-00-LT-93526	14	0.40	1.40	10.1	293.6	55	200
I-0056-Q040-001-00-LT-93526	28	0.40	1.50	12.8	293.6	55	200
I-0028-Q060-001-00-LT-93526	14	0.60	1.50	13.3	130.5	55	200
I-0056-Q060-001-00-LT-93526	28	0.60	1.60	17.5	130.5	55	200

Note: Available in 4 - 112 quads



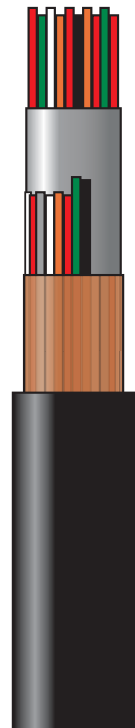
Plain solid copper conductors of 0.4 mm, PE insulation, quad construction, polyester tape(s) core wrap, continuity wire, aluminium polyester screen, grey fire retardant PVC sheath
Options: Tinned Copper Braid, Halogen Free Flame Retardant (HFFR) Sheath
Compliant with French Telecom Standard (Normes France) NF C 32-062 & 32-070-C2

B3 P/N	No. Quads	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Max O/All Diameter (mm)	Max Resistance (ohms/km)	Mutual Cap Nom/Max (nF/km)	Capacitance Unbalance 95% of cases (pf)
I-0064-Q040-001-00-LV-32062	32	0.40	1.00	11.0	147	50/57.5	<300
I-0256-Q040-001-00-LV-32062	128	0.40	1.00	22.5	147	50/57.5	<300

Plain solid copper conductors, PVC insulation, unit twin construction, polyester tape core wrap, PVC sheath
Options: Electrical screen & drainwire, Moisture Barrier, HFFR/LSNH (Low Smoke Non Halogen) Sheath
Compliant with British Telecom Standard CW1308

B3 P/N	No. Pairs	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Max O/All Diameter (mm)	Max Average Resistance (ohms)	Capacitance Unbalance 99% of cases (pf)	Insulation Resistance (Mohms/km)
I-0050-P040-001-00-AT-1308	50	0.40	1.00	16.0	153	200	50
I-0100-P040-001-00-AT-1308	100	0.40	1.30	24.0	153	200	50
I-0002-P050-001-00-AT-1308	2	0.50	0.50	4.7	97.8	500	50
I-0050-P050-001-00-AT-1308	50	0.50	1.00	17.0	97.8	500	50
I-0320-P050-001-00-AT-1308	320	0.50	2.20	39.5	97.8	500	50

Note: Available in pair range 1 - 320 pair and with 1.38 mm earth wire



JUMPERWIRES

Typical Cable Applications:

Suitable for cross connection on distribution frames

xDSL Jumper Wire (30 MHz Version)

Plain solid copper conductors insulated with PVC. Twisted into a pair (red/white), or quad (red-white/black-green)
Compliant with European Norm EN 50173

B3 P/N	Pair/Quad	Conductor Diameter (mm)	Nom Insulated Dia (mm)	Characteristic Impedance (ohms)	Mutual Capacitance (nF/km)	NEXT @ 1 MHz (dB)	Attenuation @ 1 MHz (dB/100m)
I-0001-P050-030-57-0-0-50173	Pair	0.50	2.20	100 ± 15	< 80	≥ 57	≤ 2.6
I-0002-Q050-030-57-0-0-50173	Quad	0.50	2.30	100 ± 15	< 80	≥ 57	≤ 2.6

Wire Jumper 9000

Plain solid copper conductors, non-irradiated PVC insulation
Compliant with British Telecom Specification CW1423

B3 P/N	No. Pairs	Conductor Diameter (mm)	Min Radial (mm)	Nom Insulated Dia (mm)	Max Average Resistance (ohms)	Insulation Resistance (Mohms/km)	Max O/All Diameter (mm)
I-0001-P050-001-00-0-0-1423	1	0.50	0.25	1.08	98	50	1.10



INTERNAL COAXIAL CABLES

Typical Cable Applications:

Suitable for use in transmission equipment cabling

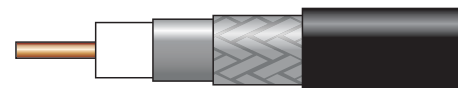
Miniature 75 Ohm Coaxial Link cable

Plain solid copper conductors, solid PE insulation, 2 x tinned copper wire braids, PVC sheath
Available as single and multiway cables with optional HFFR sheath
Compliant with BT Specifications CW1383 (Cable Coaxial 3002) and CW1407

B3 P/N	No. Coax	Cu Gauge (mm)	Min Radial (mm)	Nom Insulated Dia (mm)	Impedance (ohms)	Resistance/100m (ohms)	Insulation Resistance (Mohms/km)	Max O/All Diameter (mm)
BCA300200001V	1	0.31	1.10	1.95	75.0 ± 4.0	23.60	20,000	3.55
BCA300200008W	8	0.31	1.10	1.95	75.0 ± 4.0	23.60	20,000	16.5
BCA300200016W	16	0.31	1.10	1.95	75.0 ± 4.0	23.60	20,000	21.5

Subminiature 75 Ohm Coaxial cable

Plain solid copper conductors, foamed PE insulation, bonded aluminium screen, copper wire braid, HFFR sheath
Available as single and multiway cables.
Compliant with BT Specification CW1470 (Cable Coaxial 7000)



B3 P/N	No. Coax	Cu Gauge (mm)	Min Radial (mm)	Nom Insulated Dia (mm)	Impedance (ohms)	Resistance/100m (ohms)	Insulation Resistance (Mohms/km)	Max O/All Diameter (mm)
BCB7000100Z01	1	0.61	2.80	4.50	75.0 ± 4.0	6.10	20,000	4.50
BCB7000100Z04W	4	0.61	2.80	4.50	75.0 ± 4.0	6.10	20,000	13.0
BCB7000100Z08W	8	0.61	2.80	4.50	75.0 ± 4.0	6.10	20,000	19.0
BCB7000100Z12W	12	0.61	2.80	4.50	75.0 ± 4.0	6.10	20,000	25.0

* Available with collective overall aluminium screen and PVC sheath

LIMITED FIRE HAZARD CABLE

Typical Cable Applications:

Suitable for use in fire risk locations: high rise buildings, sub-surface, underground & metro systems

Plain solid copper conductors, PE insulation, unit twin construction, polyester core wrap, fire retardant tape, drain wire, electrical screen, low smoke zero halogen sheath
Compliant with British Telecom Standard CW1600

B3 P/N	No. Pairs	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Max O/All Diameter (mm)	Max Average Resistance (ohms)	Max Average Mutual Cap (nF/km)	Capacitance Unbalance 99% of cases (pf)
I-0003-P050-001-00-T-1600	3	0.50	0.60	4.8	97.8	80	500
I-0040-P050-001-00-T-1600	40*	0.50	0.90	15.0	97.8	80	500
I-0100-P050-001-00-T-1600	100*	0.50	1.50	27.0	97.8	80	500
I-0320-P050-001-00-T-1600	320*	0.50	2.20	39.5	97.8	80	500

Note 1: * These cables contain a 1.38 mm PVC insulated Earth wire

Note 2: Available in pair range 2 - 320 pair

TACW conductors of 0.5 mm, PVC insulation, unit twin construction, polyester core wrap, fire retardant tape, low smoke zero halogen sheath
Compliant with Saudi Arabian Telecom Standard MAT1401

B3 P/N	No. Pairs	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Max O/All Diameter (mm)	Max Average Resistance (ohms)	Max Average Mutual Cap (nF/km)	Max Capacitance Unbalance within unit (pf/500m)
I-0010-P050-001-00-T-1401	10	0.50	0.90	9.0	92	75 ± 2	22
I-0030-P050-001-00-T-1401	30	0.50	1.10	13.0	92	75 ± 2	22
I-0050-P050-001-00-T-1401	50	0.50	1.20	16.0	92	75 ± 2	22
I-0100-P050-001-00-T-1401	100	0.50	1.30	20.0	92	75 ± 2	22

Note: Available in pair range 6 - 300 pairs

Plain solid copper conductors of 0.5mm, PE insulation, pair construction in concentric layers
1 or more core wrap tapes, longitudinally applied aluminium-copolymer tape and low smoke zero halogen sheath
Compliant with Spanish ICT standards

B3 P/N	No. Pairs	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Nom O/All Diameter (mm)	Max Average Resistance (ohms)	Max Average Mutual Cap (nF/km)	NEXT @ 1MHz	Attenuation @ 1MHz (dB/Km)	Characteristic Impedance (ohm/km)
I-0025-P050-001-45-AT-ICT	26	0.50	1.2	12.0	91	52	45	21	100
I-0050-P050-001-45-AT-ICT	51	0.50	1.2	16.0	91	52			
I-0075-P050-001-45-AT-ICT	76	0.50	1.2	19.0	91	52			
I-0100-P050-001-45-AT-ICT	101	0.50	1.2	21.0	91	52			

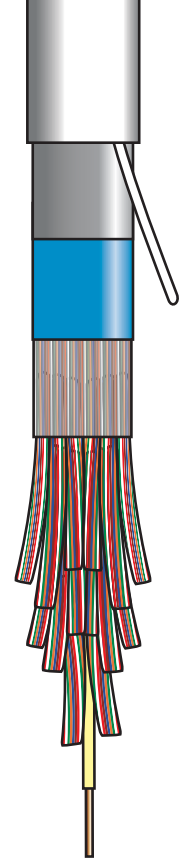
OUTSIDE PLANT PRIMARY CABLES

Typical Cable Applications:

Outside Plant (OSP) Cables used primarily in the Primary or Exchange ('E'-side) Network

Plain solid copper conductors of 0.4 and 0.6 mm, PE insulation, pair construction in concentric layers, 1 or more core wrap tapes, service quad, HDPE sheath incorporating a longitudinally applied aluminium-copolymer tape
Compliant with Italian Telecom Standard (Italian Standard) CT-1240

B3 P/N	No. Pairs	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Nom O/All Diameter (mm)	Max Loop Resistance (ohms/km)	Max Average Mutual Cap (nF/km)	NEXT @ 1 MHz (dB)	Attenuation @ 1 MHz (dB/100m)	Characteristic Impedance (ohm/km)
E-1200-P040-001-50-AP-1240	1200	0.40	2.50	62.5	150	55	50	27	140
E-1600-P040-001-50-AP-1240	1600	0.40	2.70	72.0	150	55			
E-2400-P040-001-50-AP-1240	2400	0.40	3.10	85.2	150	55			
E-0800-P060-001-50-AP-1240	800	0.60	2.20	64.0	66.6	55			
E-1200-P060-001-50-AP-1240	1200	0.60	2.50	79.0	66.6	55			



Plain solid copper conductors of 0.4 and 0.6 mm, PE insulation, pair construction in concentric layers,
 1 or more core wrap tapes, service quad, HDPE sheath incorporating a longitudinally applied aluminium-copolymer tape,
 helical steel tape armour, HDPE sheath
 Compliant with Italian Telecom Standard (Italian Standard) CT-1240

B3 P/N	No. Pairs	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Nom O/All Diameter (mm)	Max Loop Resistance (ohms/km)	Max Average Mutual Cap (nF/km)	NEXT @ 1 MHz (dB)	Attenuation @ 1 MHz (dB/100m)	Characteristic Impedance (ohm/km)
E-0100-P040-001-50-AP-1240HP	100	0.40	1.80	21.6	150	55	50	27	140
E-0200-P040-001-50-AP-1240HP	200	0.40	1.80	29.1	150	55			
E-0800-P040-001-50-AP-1240HP	800	0.40	2.20	51.4	150	55			
E-1200-P040-001-50-AP-1240HP	1200	0.40	2.50	62.5	150	55			
E-2400-P040-001-50-AP-1240HP	2400	0.40	3.10	85.2	150	55			
E-0100-P060-001-50-AP-1240HP	100	0.60	1.80	29	66.6	55			
E-0200-P060-001-50-AP-1240HP	200	0.60	1.90	37.3	66.6	55			
E-0800-P060-001-50-AP-1240HP	800	0.60	2.70	70.5	66.6	55			
E-1200-P060-001-50-AP-1240HP	1200	0.60	3.00	87	66.6	55			

Plain solid copper conductors of 0.5mm, PE insulation, pair construction in concentric layers
 1 or more core wrap tapes, longitudinally applied aluminium-copolymer tape and PE sheath
 Compliant with Spanish ICT standards

B3 P/N	No. Pairs	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Nom O/All Diameter (mm)	Max Average Resistance (ohms)	Max Average Mutual Cap (nF/km)	NEXT @ 1MHz	Attenuation @ 1MHz (dB/Km)	Characteristic Impedance (ohm/km)
E-0025-P050-001-45-AP-ICT	26	0.50	1.2	12.0	93	52	45	21	100
E-0050-P050-001-45-AP-ICT	51	0.50	1.2	16.0	93	52			
E-0075-P050-001-45-AP-ICT	76	0.50	1.2	19.0	93	52			
E-0100-P050-001-45-AP-ICT	101	0.50	1.2	21.0	93	52			

Plain solid copper conductors of 0.5 mm, PE insulation, quad constructions, a perforated wire of solid copper with a diameter of 0.5 mm,
 Polyurethane filled, 4 x TACW continuity wires with a diameter of 0.41 mm, PE sheath, layer of galvanized steel wires, and green PE sheath
 Compliant with Netherlands Standard PTT NORM 92

B3 P/N	No. Quads	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Max O/All Diameter (mm)	Max Average Resistance (ohms)	Max Average Mutual Cap (nF/km)	NEXT @ 1MHz	Attenuation @ 1MHz (dB/Km)
E-0012-Q050-001-40-PGP-NM92	6	0.50	1.20	17.0	93	40	40	15
E-0030-Q050-001-40-PGP-NM92	15	0.50	1.50	21.5	93	40		
E-0050-Q050-001-40-PGP-NM92	25	0.50	1.50	30.0	93	40		

Plain solid copper conductors of 0.4, 0.6, and 0.8 mm (Serial 89), PE insulation, pair construction in concentric layers,
 1 or more core wrap tapes, continuity wire, HDPE sheath incorporating a longitudinally applied aluminium-copolymer tape
 Compliant with French Telecom Standard (Normes France) NF C 93-526 & NF C 93-527-7

B3 P/N	No. Pairs	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Nom O/All Diameter (mm)	Max Loop Resistance (ohms/km)	Max Average Mutual Cap (≤ 28 Prs, nF/km)	Max Average Mutual Cap (≥ 28 Prs, nF/km)	Max Capacitance Unbalance (within quad, pF/600m)	Max Capacitance Unbalance (between quads, pF/600m)
E-0014-P040-001-00-AP-93526	14	0.40	1.30	7.9	293.6	55	52.5	500	250
E-0056-P040-001-00-AP-93526	56	0.40	1.50	13.0	293.6	55	52.5	500	250
E-0014-P060-001-00-AP-93526	14	0.60	1.40	10.8	130.5	55	52.5	500	250
E-0056-P060-001-00-AP-93526	56	0.60	1.60	17.7	130.5	55	52.5	500	250
E-0008-P060-001-00-AP-93526	8	0.80	1.40	10.3	73.4	55	52.5	250	125
E-0028-P060-001-00-AP-93526	28	0.80	1.60	16.5	73.4	55	52.5	250	125

Plain solid copper conductors, solid PE insulation (0.4 mm cdr), foamskin PE insulation (0.6 & 0.8 mm cdr), pair construction in concentric layers,
 petroleum jelly filled, 2 x core wrap tapes, continuity wire, corrugated steel tape armour, HDPE sheath
 Options: Helical steel tape armour (Series 75) compliant to NF C 93-526 & NF C 93-527
 Compliant with French Telecom Standard (Normes France) NF C 93-527-9 & NF C 93-527-1

B3 P/N	No. Pairs	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Nom O/All Diameter (mm)	Max Loop Resistance (ohms/km)	Max Average Mutual Cap (nF/km)	Max Capacitance Unbalance (within quad, pF/600m)	Max Capacitance Unbalance (between quads, pF/600m)
E-0112-P040-001-00-SP-93527	112	0.40	2.00	22.0	293.6	55	500	250
E-0112-P060-001-00-SP-93527	112	0.60	2.20	26.4	130.5	55	500	250
E-0112-P080-001-00-SP-93527	112	0.80	2.20	34.4	73.4	55	250	125

Note: Single armoured version available in pair range 8 - 1792, double armoured 28 - 224

Plain solid copper conductors, PE insulation, 25 pair unit twin construction,
dry core, polyester/paper core wrap, Aluminium - copolymer moisture barrier, black PE sheath.
Compliant with Bahrain Telecommunications Specification BTC1961 & British Telecom Standard CW1171

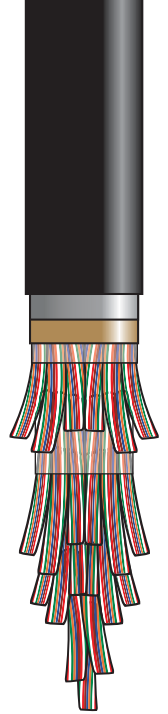
B3 P/N	No. Pairs	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Max O/All Diameter (mm)	Max Average Resistance (ohms)	Max Average Mutual Cap (nF/km)	Capacitance Unbalance 99% of cases (pf)
E-4800-P032-001-00-D-AP-1171	4800	0.32	2.70	76.0	223	53	275
E-1000-P040-001-00-D-AP-1171	1000	0.40	2.30	51.5	143	53	275
E-2400-P040-001-00-D-AP-1171	2400	0.40	2.70	75.0	143	53	275
E-0100-P050-001-00-D-AP-1171	100	0.50	1.70	23.5	91	56	275
E-0800-P063-001-00-D-AP-1171	800	0.63	2.70	70.5	58	56	275
E-0100-P090-001-00-D-AP-1171	100	0.90	2.00	38.0	28	59	275

Note: Cables available in pair range 50 - 4800

Plain solid copper conductors, cellular PE insulation, 25 pair unit twin construction,
dry core, polyester/paper core wrap, Aluminium - copolymer moisture barrier, black PE sheath.
Compliant with Cable & Wireless Specification CW0006 & British Telecom Standard CW1224

B3 P/N	No. Pairs	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Max O/All Diameter (mm)	Max Average Resistance (ohms)	Max Average Mutual Cap (nF/km)	Capacitance Unbalance 99% of cases (pf)
E-4800-P032-001-00-D-AP-1224	4800	0.32	2.70	76.0	223	53	275
E-2400-P040-001-00-D-AP-1224	2400	0.40	2.60	70.0	143	53	275
E-0100-P050-001-00-D-AP-1224	100	0.50	1.70	22.0	91	56	275
E-2000-P050-001-00-D-AP-1224	2000	0.50	2.70	75.0	91	56	275
E-0800-P063-001-00-D-AP-1224	800	0.63	2.50	61.0	58	56	275
E-0100-P090-001-00-D-AP-1224	100	0.90	1.90	32.5	28	59	275

Note: Cables available in pair range 50 - 4800



OUTSIDE PLANT SECONDARY CABLE

Typical Cable Applications:

Outside Plant (OSP) Cables used primarily in the Secondary or Distribution ('D'-side) Network

A-2Y(L)2Y St III Bd Local Cable

Plain solid copper conductors of 0.4, 0.6 or 0.8 mm, solid PE insulation, quad construction in concentric layers,
plastic core wrap tape, PE sheath incorporating a longitudinally applied aluminium-copolymer tape.

Compliant with German Telecom Standard (Verband der Elektrotechnik) VDE 0816 Part 1

Options: Steel tape Armour - A-2Y(L)2Y2BY, Steel Wire Armour - A-2Y(L)2YR

B3 P/N	No. Pairs	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Nom O/All Diameter (mm)	Max Loop Resistance (ohms/km)	Max Mutual Cap (nF/km)	Max Capacitance Unbalance (k1, 300m, pF)	Max Capacitance Unbalance (k9,12, 300m, pF)
E-0100-P040-001-00-D-AP-0816	100	0.40	1.80	21.0	300	50	800	800
E-0100-P060-001-00-D-AP-0816	100	0.60	2.00	25.0	130	52	800	800
E-0050-P080-001-00-D-AP-0816	50	0.80	2.00	26.0	73.2	55	800	800

Note: Cables available in pair range 8 - 168

Plain solid copper conductors, cellular PE insulation, 10 pair unit twin construction, petroleum jelly filled, paper core wrap, PE sheath

Compliant with Cable & Wireless Specification CW0011 (screened version) & British Telecom Standard CW1128

Options: Moisture Barrier (CW1179), Steel Wire Armouring (CW1198) and Aerial Self Supporting (CW1252)

B3 P/N	No. Pairs	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Max O/All Dia, no screen, unarmoured (mm)	Max O/All Dia, screened, unarmoured (mm)	Max O/All Dia, no screen, armoured (mm)	Max O/All Dia, screened, armoured (mm)	Max Average Resistance (ohms/km)	Max Average Mutual Cap (nF/km)
E-0100-P040-001-00-F-P-1128	100	0.40	1.3	18.5	20.0	25.3	26.8	143	56
E-0100-P050-001-00-F-P-1128	100	0.50	1.4	22.0	23.5	29.0	30.5	91	56
E-0100-P060-001-00-F-P-1128	100	0.60	1.6	32.0	33.5	40.2	41.7	63	42
E-0100-P063-001-00-F-P-1128	100	0.63	1.5	27.5	29.0	35.5	37.0	58	56
E-0100-P090-001-00-F-P-1128	100	0.90	1.7	36.0	37.5	44.4	45.9	28	59

Note: Cables available in pair range 2 - 100

Plain solid copper conductors, solid PE insulation, 10 pair unit twin construction,

petroleum jelly filled, paper core wrap, PE sheath.

Options: Moisture Barrier (CW1179), Steel Wire Armouring (CW1198) and Aerial Self Supporting (CW1252)

Compliant with British Telecom Standard CW1326

B3 P/N	No. Pairs	Conductor Diameter (mm)	Nom Sheath Radial (mm)	Max O/All Diameter (mm)	Max Average Resistance (ohms)	Max Average Mutual Cap (nF/km)	Capacitance Unbalance 99% of cases (pf)
E-0010-P050-001-00-F-P-1326	10	0.50	1.20	12.0	91	56	275
E-0020-P050-001-00-F-P-1326	20	0.50	1.30	15.0	91	56	275
E-0050-P050-001-00-F-P-1326	50	0.50	1.40	19.5	91	56	275
E-0100-P050-001-00-F-P-1326	100	0.50	1.50	25.0	91	56	275

Note: Cables available in pair range 2 - 100

Plain solid copper conductors of 0.4, 0.51, 0.64 or 0.9 mm, foam skin PE insulation, twisted pair construction in concentric layers, petroleum jelly filled, 1 or more core wrap tapes, PE sheath incorporating a longitudinally applied corrugated aluminium-copolymer tape
Compliant with American National Standards Institute / Insulated Cable Engineers Association (ANSI/ICEA) S-84-608-2007

B3 P/N	No. Pairs	Conductor Diameter (mm)	Nom O/All Diameter (mm)	Max Resistance (ohms/km)	Max Ave Mutual Cap (≤ 12 Prs, nF/km)	Max Ave Mutual Cap (≥ 13 Prs, nF/km)	Max Individual Capacitance Unbalance (pF/km)	Attenuation @ 0.772 MHz (dB/305m)
E-0050-P040-001-00-F-P-PE89	50	0.40	14.0	144.2	52 \pm 4	52 \pm 2	145	7.0
E-0100-P050-001-00-F-P-PE89	100	0.50	22.0	89.5	52 \pm 4	52 \pm 2	145	5.6
E-0100-P064-001-00-F-P-PE89	100	0.64	27.0	56.6	52 \pm 4	52 \pm 2	145	4.5
E-0100-P090-001-00-F-P-PE89	100	0.90	38.0	28.0	52 \pm 4	52 \pm 2	145	3.2

Note: Cables available in pair range 6 - 2400

Option: Available as type PE-89 - Aerial Self Supporting compliant with ANSI/ICEA S-84-608-2007, RDUP 7 CFR 1755.890 & ANSI/ICEA S-85-625-2007 (support member)

Type PE-22 distribution cable

Plain solid copper conductors of 0.4, 0.51, 0.64 or 0.9 mm, solid PE insulation, twisted pairs, concentric up to 25 pairs, unit construction thereafter 1 or more core wrap tapes, PE sheath incorporating a longitudinally applied corrugated aluminium-copolymer tape
Compliant with American National Standards Institute / Insulated Cable Engineers Association (ANSI/ICEA) S-85-625-2007
Cables compliant with ICT normative Infraestructura común de telecomunicaciones.

B3 P/N	No. Pairs	Conductor Diameter (mm)	Nom O/All Diameter (mm)	Max Resistance (ohms/km)	Max Ave Mutual Cap (≤ 12 Prs, nF/km)	Max Ave Mutual Cap (≥ 13 Prs, nF/km)	Max Individual Capacitance Unbalance (pF/km)	Attenuation @ 0.772 MHz (dB/305m)
E-0050-P040-001-00-D-MP-PE22	50	0.40	14.0	144.2	52 \pm 4	52 \pm 2	145	7.0
E-0100-P050-001-00-D-MP-PE22	100	0.50	21.0	89.5	52 \pm 4	52 \pm 2	145	5.6
E-0100-P064-001-00-D-MP-PE22	100	0.64	26.0	56.6	52 \pm 4	52 \pm 2	145	4.5
E-0100-P090-001-00-D-MP-PE22	100	0.90	34.0	28.0	52 \pm 4	52 \pm 2	145	3.2

Note: Cables available in pair range 6 - 2400

Option: Available as aerial self supporting cable

OUTSIDE PLANT DROPWIRE CABLES

Typical Cable Applications:

Suitable for connection to subscribers premises

Plain solid copper conductors, solid PE insulation, PVC insulated steel support strands, polyester core wrap, ripcord, PE sheath

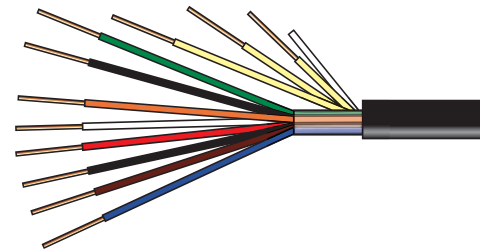
B3 P/N	Description/Specification	No. Pairs	Conductor Diameter (mm)	Max Average Resistance (ohms)	Max O/All Diameter (mm)
A-0002-P050-001-00-D-RP-1411	Dropwire 10B / CW1411	2	0.50	95	5.50
A-0004-P050-001-00-D-RP-1417	Dropwire 14 / CW1417*	4	0.50	95	5.50
A-0001-P090-001-00-D-RP-1406	Dropwire 12 / CW1406	1	0.90	28	5.50

Note: *Also referred to as CAD55M.

Plain solid copper conductors, solid PE insulation, PVC inner sheath, steel braiding, PVC outer sheath

Compliant with spanish ICT standards

B3 P/N	Description/Specification	No. Pairs	Conductor Diameter (mm)	Max Average Resistance (ohms)	Max O/All Diameter (mm)
A-0001-P050-001-00-D-VBV-ICT	Reinforced Drop Cable	1	0.60	65	7.50
A-0001-P050-001-00-D-VBV-ICT	Reinforced Drop Cable	2	0.60	65	8.00



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