

Alcatel 6821 Central Tube Ribbon Cable

Excellent for metro applications or other high density environments, Alcatel's ribbon designs enable operators to place as many as 432 fibers in a small-diameter cable optimizing revenue per cable pathway. These cables are suitable for aerial, buried or duct applications. Standard design configurations include armored, all-dielectric, single jacket, dry construction.

Currently, ribbon cables are available only with Alcatel's standard singlemode fiber with AFC™ coating and ColorLock™.

The tables below provide information on standard cable configurations. Please contact your Alcatel sales representative for additional customized cable configurations and sizes.



Alcatel optical fiber cable products are designed for optimum performance and ease of installation, in accordance with applicable industry technical specifications, standards and references including Telcordia GR-20, RUS, ICEA-640, TIA/EIA, IEC and EN.

FEATURES	BENEFITS
▶ Small diameter	▶ Low weight, easy handling and shipping
▶ Optical Fibers use revolutionary AFC™ coating with ColorLock™	▶ Permanent and easy fiber identification
▶ Ribbons in a central buffer tube	▶ Ease of installation, identification and routing
▶ High fiber density	▶ Reduces installation costs and extends pull distance
▶ Precise fiber and ribbon geometries	▶ Results in excellent mass fusion-splicing yields

1. Optical Fiber Ribbon

EZ Access® ribbon material

2. Ripcords

High strength cords provide easy cable access

3. Armor (optional)

Corrugated steel tape for additional protection in buried environments.

4. Strength Members

Longitudinal strength members are outside the cable core, positioned 180 degrees apart.

5. ABM2™ Buffer Tubes

The primary function of the tube is to protect fibers from tensile, thermal and vibration loads, maintaining their optical and mechanical integrity.

6. Strength Yarns

Strength yarns provide torsionally balanced tensile strength.

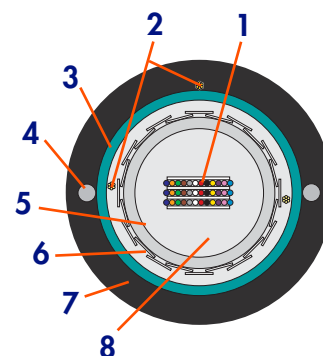
7. Jacket

Non-reclaimed medium quality polyethylene.

8. Water Blocking Material

A water swellable strips in the cable core prevents water ingress.

Alcatel fiber optic cable products are engineered to provide optimum performance and network flexibility.



Typically Deployed Globally

Dielectric - Mechanical Specifications

Part Number	Fiber Count	Outside Diameter		Cable Weight		Minimum Bend Radius			
		Inches	mm	lb/kft	kg/km	Inches W/Load No Load		mm W/Load No Load	
U-CR-12-NA-SX	12	.59	15.0	130	194	12	6	300	150
U-CR-24-NA-SX	24	.59	15.0	130	194	12	6	300	150
U-CR-36-NA-SX	36	.59	15.0	130	194	12	6	300	150
U-CR-48-NA-SX	48	.59	15.0	130	194	12	6	300	150
U-CR-60-NA-SX	60	.59	15.0	130	194	12	6	300	150
U-CR-72-NA-SX	72	.59	15.0	130	194	12	6	300	150
U-CR-84-NA-SX	84	.59	15.0	130	194	12	6	300	150
U-CR-96-NA-SX	96	.59	15.0	130	194	12	6	300	150
U-CR-108-NA-SX	108	.68	17.3	147	219	14	7	350	180
U-CR-120-NA-SX	120	.68	17.3	147	219	14	7	350	180
U-CR-132-NA-SX	132	.68	17.3	147	219	14	7	350	180
U-CR-144-NA-SX	144	.68	17.3	147	219	14	7	350	180
U-CR-156-NA-SX	156	.68	17.3	147	219	14	7	350	180
U-CR-168-NA-SX	168	.68	17.3	147	219	14	7	350	180
U-CR-180-NA-SX	180	.68	17.3	147	219	14	7	350	180
U-CR-192-NA-SX	192	.68	17.3	147	219	14	7	350	180
U-CR-204-NA-SX	204	.68	17.3	147	219	14	7	350	180
U-CR-216-NA-SX	216	.68	17.3	147	219	14	7	350	180
U-CR-240-NA-SX	240	.76	19.3	204	304	15	8	380	190
U-CR-264-NA-SX	264	.76	19.3	204	304	15	8	380	190
U-CR-288-NA-SX	288	.76	19.3	204	304	15	8	380	190
U-CR-312-NA-SX	312	.76	19.3	204	304	15	8	380	190
U-CR-336-NA-SX	336	.76	19.3	204	304	15	8	380	1900
U-CR-360-NA-SX	360	.76	19.3	204	304	15	8	380	190
U-CR-384-NA-SX	384	.76	19.3	204	304	15	8	380	190
U-CR-408-NA-SX	408	.76	19.3	204	304	15	8	380	190
U-CR-432-NA-SX	432	.76	19.3	204	304	15	8	380	190

Cables with fiber count exceeding 216 contain 24 fibers per splittable ribbon

For ribbon cables exceeding 432 fibers, refer to Stranded Ribbon Cable products.

Alcatel reserves the right to change specifications without prior notice.

Uz

Typically Deployed Globally

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Dielectric - Mechanical Specifications (continued)

Part Number Guide- a particular part number is NOT complete until you select a fiber type (SX)

U = Typically Deployed Globally

CR = Central Ribbon

= Fiber Count

NA = Non Armored (dielectric)

SX = Fiber Type

S1 = Standard Singlemode

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Standard Alcatel uses advanced ABM2 buffer tube material.

Installation

Maximum Installation Load: 600 lbf (2670 N)

Maximum Operation Load: 180 lbf (890 N)

Environmental

Temperature Range:

Installation: -30°C to +60°C

Operating: -40°C to +70°C

Storage: -50°C to +75°C

The above information provide typical values.

For additional information visit Alcatel online or call your nearest Optical Fiber Sales Representative

www.alcatel.com/opticalfiber

Brazil.....	+55 11 3068 9993
France	+33 1 55 51 51 51
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Spain.....	+34 942 247 111
UK.....	+44 1633 413 600
North America.....	+1 828 459 9787
	800 879 9862

Typically Deployed Globally

Armored - Mechanical Specifications

Part Number	Fiber Count	Outside Diameter		Cable Weight		Minimum Bend Radius			
		Inches	mm	lb/kft	kg/km	Inches		mm	
						W/Load	No Load	W/Load	No Load
U-CR-12-A1J-SX	12	.63	15.9	150	223	13	10	320	250
U-CR-24-A1J-SX	24	.63	15.9	150	223	13	10	320	250
U-CR-36-A1J-SX	36	.63	15.9	150	223	13	10	320	250
U-CR-48-A1J-SX	48	.63	15.9	150	223	13	10	320	250
U-CR-60-A1J-SX	60	.63	15.9	150	223	13	10	320	250
U-CR-72-A1J-SX	72	.63	15.9	150	223	13	10	320	250
U-CR-84-A1J-SX	84	.63	15.9	150	223	13	10	320	250
U-CR-96-A1J-SX	96	.63	15.9	150	223	13	10	320	250
U-CR-108-A1J-SX	108	.73	18.4	190	283	14	11	350	270
U-CR-120-A1J-SX	120	.73	18.4	190	283	14	11	350	270
U-CR-132-A1J-SX	132	.73	18.4	190	283	14	11	350	270
U-CR-144-A1J-SX	144	.73	18.4	190	283	14	11	350	270
U-CR-156-A1J-SX	156	.73	18.4	190	283	14	11	350	270
U-CR-168-A1J-SX	168	.73	18.4	190	283	14	11	350	270
U-CR-180-A1J-SX	180	.73	18.4	190	283	14	11	350	270
U-CR-192-A1J-SX	192	.73	18.4	190	283	14	11	350	270
U-CR-204-A1J-SX	204	.73	18.4	190	283	14	11	350	270
U-CR-216-A1J-SX	216	.73	18.4	190	283	14	11	350	270
U-CR-240-A1J-SX	240	.85	21.6	292	434	17	13	430	330
U-CR-264-A1J-SX	264	.85	21.6	292	434	17	13	430	330
U-CR-288-A1J-SX	288	.85	21.6	292	434	17	13	430	330
U-CR-312-A1J-SX	312	.85	21.6	292	434	17	13	430	330
U-CR-336-A1J-SX	336	.85	21.6	292	434	17	13	430	330
U-CR-360-A1J-SX	360	.85	21.6	292	434	17	13	430	330
U-CR-384-A1J-SX	384	.85	21.6	292	434	17	13	430	330
U-CR-408-A1J-SX	408	.85	21.6	292	434	17	13	430	330
U-CR-432-A1J-SX	432	.85	21.6	292	434	17	13	430	330

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Typically Deployed Globally

Armored- Mechanical Specifications (continued)**Part Number Guide-** a particular part number is NOT complete until you select a fiber type (SX)**U** = Typically Deployed Globally**CR** = Central Ribbon**###** = Fiber Count**A1J** = Single Armored Single Jacket**SX** = Fiber Type

S1 = Standard Singlemode

*Alcatel reserves the right to change specifications without prior notice.***Standard** Alcatel uses advanced ABM2 buffer tube material.**Installation****Maximum Installation Load:** 600 lbf (2670 N)**Maximum Operation Load:** 180 lbf (890 N)**Environmental****Temperature Range:**

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