

Triax Cables

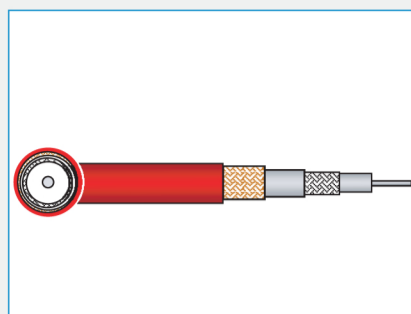
Triaxial Camera Cables

Construction

Inner conductor	solid copper wire, silvered or stranded copper wires, silvered
Insulation	Foam-PE
1st outer conductor	copper braid, thick silvered
Insulation	PE
2nd outer conductor	copper braid, bare
Sheath	PVC, PU (standard or reinforced type) or LSZH red, RAL 3000 altern. black or grey
Weight	87(Triax8PU) - 250(Triax 14 PVC) mm
Tensile force N	85(Triax8PU) - 550(Triax 14 PVC)

Dimensions

	Triax 8	Triax 11, Triax 11/1	AtteTriax 14ation
Inner conductor copper wire, silvered	Ø 1.0 mm	Ø 1.4 mm	-
stranded copper wires, silvered	-	-	Ø 2.2 mm
Insulation foam-PE	Ø 4.5 mm	Ø 6.5 mm	Ø 9.7 mm
Inner screen copper braid, silvered	Ø 5.1 mm	Ø 7.1 mm	Ø 10.5 mm
Insulation PE	Ø 6.6 mm	Ø 8.6 mm	Ø 11.9 mm
Outer screen copper braid, bare	Ø 7.2 mm	Ø 9.2 mm	Ø 12.7 mm
Sheath red, RAL 3000	Ø 8.4 mm	Ø 10.9 mm	Ø 14.5 mm
reinforced, sign/1	Ø 8.9 mm	Ø 12.2 mm	-



Application

Triaxial camera cables are used in professional studio applications for simultaneous transmission of energy and multiplex image signals between camera head and control system for SDI and HD-SD. They are available as different types optimized for use inside studios and outdoor application.

Electrical properties: Triax 8 at 20°C

Characteristic impedance	-	75 Ω ± 3 %
Mutual capacitance	800 Hz	54 pF/m
DC resistance	inner conductor	25 Ω/km
	inner screen	12 Ω/km
	outer screen	10 Ω/km
Insulation resistance	inner conductor/inner screen	≥ 104 MΩ*km
	inner screen/outer screen	≥ 103 MΩ*km
Max. operating voltage	-	300 V
Screening factor	30 - 1000 MHz	≥ 75 dB

Electrical properties: Triax 11, Triax 11/1 at 20°C

Characteristic impedance	-	75 Ω ± 3 %
Mutual capacitance	800 Hz	54 pF/m
DC resistance	inner conductor	13 Ω/km
	inner screen	10 Ω/km
	outer screen	8 Ω/km
Insulation resistance	inner conductor/inner screen	≥ 104 MΩ*km
	inner screen/outer screen	≥ 103 MΩ*km
Max. operating voltage	-	400 V
Screening factor	30 - 1000 MHz	≥ 75 dB

Electrical properties: Triax 14

Characteristic impedance	-	75 Ω ± 3 %
Mutual capacitance	800 Hz	54 pF/m
DC resistance	inner conductor	6 Ω/km
	inner screen	6 Ω/km
	outer screen	4 Ω/km
Insulation resistance	inner conductor/inner screen	≥ 104 MΩ*km

Electrical Properties: Triax 8 at 20°C

Attenuation (dB/100m) Frequency (MHz)		Return loss (dB) Frequency (MHz)	
1	0.6	1 - 100	1 - 100
10	2.2	100 - 300	100 - 300
20	3.2	-	-
40	4.6	-	-
50	5.1	-	-
60	5.6	-	-
100	7.5	-	-
300	13.8	-	-

Electrical Data: Triax 11, Triax 11/1 at 20°C

Attenuation (dB/100m) Frequency (MHz)		Return loss (dB) Frequency (MHz)	
1	0.5	1 - 100	1 - 100
10	1.6	100 - 300	100 - 300
20	2.3	-	-
40	3.3	-	-
50	3.7	-	-
60	4.1	-	-
100	5.4	-	-
300	10.3	-	-

Electrical Data: Triax 14 at 20°C

Attenuation (dB/100m) Frequency (MHz)		Return loss (dB) Frequency (MHz)	
1	0.4	1 - 100	1 - 100
10	1.1	100 - 300	100 - 300
20	1.6	-	-
40	2.3	-	-
50	2.6	-	-
60	2.8	-	-
100	3.8	-	-
300	7.7	-	-

Ordering Information

P/N	Product Description	P.U
1002223 CT2765700	Triax 8 PVC red, Triaxial Camera Cables, Triax Cables	1000m/drum
1017271 CT2765702	Triax 8 PVC black, Triaxial Camera Cables, Triax Cables	1000m/drum
1002221 CT2765500	Triax 8 PU, Triaxial Camera Cables, Triax Cables	1000m/drum
1002266 CT2853201	Triax 8 LSZH, Triaxial Camera Cables, Triax Cables	1000m/drum
1002268 CT2853203	Triax 8 LSZH reinforced, Triaxial Camera Cables, Triax Cables	1000m/drum
1002226 CT2766400	Triax 11 PVC, Triaxial Camera Cables, Triax Cables	1000m/drum
1002229 CT2766404	Triax 11 PE black, Triaxial Camera Cables, Triax Cables	1000m/drum
1002233 CT2766600	Triax 11 PU red, Triaxial Camera Cables, Triax Cables	1000m/drum
1002234 CT2766601	Triax 11 PU black, Triaxial Camera Cables, Triax Cables	1000m/drum
1002243 CT2767101	Triax 11/1 PU reinforced, Triaxial Camera Cables, Triax Cables	1000m/drum
1002264 CT2850801	Triax 11 LSZH, Triaxial Camera Cables, Triax Cables	1000m/drum
1002236 CT2766700	Triax 14 PVC, Triaxial Camera Cables, Triax Cables	1000m/drum
1002239 CT2766704	Triax 14 PE, Triaxial Camera Cables, Triax Cables	1000m/drum
1002273 CT2766700	Triax 14 LSZH, Triaxial Camera Cables, Triax Cables	1000m/drum
1002240 CT2767000	Triax 14 PU, Triaxial Camera Cables, Triax Cables	1000m/drum