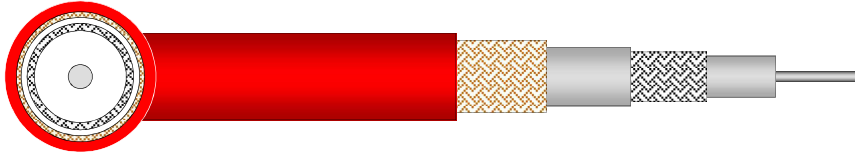


# Triax Cables

## Triaxial Camera Cables



### 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.

### Standards

### Flame resistance

PUR, PE: **not CPR relevant**

FRNC: IEC 60332-1; IEC 60754-2; IEC 61034, CPR Class Eca

### Construction

Inner conductor	solid copper wire, silvered or stranded copper wires, silvered
Insulation	Foam-PE
1 <sup>st</sup> outer conductor	copper braid, thick silvered
Insulation	PE
2 <sup>nd</sup> outer conductor	copper braid, bare
Sheath	PVC, PU (standard or reinforced type) or FRNC red, RAL 3000 altern. black or grey

### Dimensions

	Triax 8	Triax 11, Triax 11/1	Triax 14
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
Inner screen	copper braid, silvered	Ø 5.1 mm	Ø 7.1 mm
Insulation	PE	Ø 6.6 mm	Ø 8.6 mm
Outer screen	copper braid, bare	Ø 7.2 mm	Ø 9.2 mm
Sheath	red, RAL 3000	Ø 8.4 mm	Ø 10.9 mm
	reinforced, sign/1	Ø 8.9 mm	Ø 12.2 mm
Sheath marking (example: PVC sheath)	" <b>DRAKA TRIAX 8 - Y</b> HDTV" + batch no.	" <b>DRAKA TRIAX 11 - Y</b> HDTV" + batch no.	" <b>DRAKA TRIAX 14 - Y</b> HDTV" + batch no.

## Triax Cables

### 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	≥ 10 <sup>4</sup> MΩ*km
	inner screen/outer screen	≥ 10 <sup>3</sup> 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	≥ 10 <sup>4</sup> MΩ*km
	inner screen/outer screen	≥ 10 <sup>3</sup> MΩ*km
Max. operating voltage		400 V
Screening factor		≥ 75 dB

### Electrical properties: Triax 14

at 20°C

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	≥ 10 <sup>4</sup> MΩ*km
	inner screen/outer screen	≥ 10 <sup>3</sup> MΩ*km
Max. operating voltage		600 V
Screening factor		≥ 75 dB

## Triax Cables

### Electrical data: Triax 8

at 20°C

Attenuation (dB/100m)		Return loss (dB)	
Frequency (MHz)		Frequency (MHz)	
1	0.6	1 – 100	> 26
10	2.2	100 – 300	> 23
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)		Return loss (dB)	
Frequency (MHz)		Frequency (MHz)	
1	0.5	1 – 100	> 26
10	1.6	100 – 300	> 23
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)		Return loss (dB)	
Frequency (MHz)		Frequency (MHz)	
1	0.4	1 – 100	> 26
10	1.1	100 – 300	> 23
20	1.6		
40	2.3		
50	2.6		
60	2.8		
100	3.8		
300	7.7		

## Triax Cables

Product description		PG refence code	PG part Number
Triax 8 PVC red		60011499	<b>60011499</b>
Triax 8 PVC black		60011499	<b>60014209</b>
Triax 8 PUR red			<b>60014203</b>
Triax 8 PUR black			<b>60014205</b>
Triax 8 FRNC red		60014554	<b>60014554</b>
Triax 8 red FRNC reinforced		60014211	<b>60014211</b>
Triax 11 PVC red		60014214	<b>60014214</b>
Triax 11 PVC black		60014218	<b>60014218</b>
Triax 11 PE black		60014219	<b>60014219</b>
Triax 11 PUR red		60014222	<b>60014222</b>
Triax 11 PUR black		60014224	<b>60014224</b>
Triax 11/1 PUR reinforced red		60014245	<b>60014245</b>
Triax 11 FRNC red		60009614	<b>6009614</b>
Triax 14 PVC red		60011506	<b>60011506</b>
Triax 14 PE		60014238	<b>60014238</b>
Triax 14 FRNC red		60013643	<b>60013643</b>
Triax 14 PUR red		60014244	<b>60014244</b>