

CABLING & SUPPORT STRUCTURE PRICING ADDENDUM

Description	Ref. No.	Mfg. Model No.	Equip. Unit Price	+	Install Unit Price	=	Total Unit Price	x	Est. Qty.	=	Total Bid Price
Patch Cords, Fiber Optic Cable Assemblies											
Fiber Jumper, ST to ST, Duplex, mm, 2 m, ea.	CS-300	GBST2-D2-02	36.79		0.00		36.79		1		\$36.79
Fiber Jumper, ST to SC, Duplex, mm, 2 m, ea.	CS-301	GBSTC-D2-02	36.79		0.00		36.79		1		\$36.79
Paging Equipment and Cabling											
Atlas 90x40 Constant Directive Re-entrant Paging Horn, ea.	CS-302	CD94	250.00		1865.00		2115.00		1		\$2,115.00
Atlas Pole Mount Mono Channel 100w 70v/100v Amplifier, ea.	CS-303	PA1001G	287.00		104.00		391.00		1		\$391.00
Atlas Compression Drive 75 Watts 70.7v/100v, ea.	CS-304	PD75T	200.00		104.00		304.00		1		\$304.00
Atlas CP-400 Power Amplifier, ea.	CS-305	CP400	528.00		104.00		632.00		1		\$632.00
Atlas 8" 90x90 Stadium Speaker, ea.	CS-306	AH99-8ST	660.00		2072.00		2732.00		1		\$2,732.00
Speaker Wire, Unshielded 1 Pair, 12 AWG, ft.	CS-307	8477	1.70		3.11		4.81		1		\$4.81
Speaker Wire, Shielded 1 Pair, 12 AWG, ft.	CS-308	8718	2.26		3.11		5.37		1		\$5.37
Speaker Wire, Shielded 1 Pair, 20 AWG, ft.	CS-309	9154	0.60		2.60		3.20		1		\$3.20
											\$6,260.96

Description	Ref. No.	Rate	x	Sub-Total: Cabling and Support Structures	+	Sub-Total: Regulatory Fees/Charges and Taxes	=	Total Bid Price
Regulatory Fees/Charges and Taxes								
Hawaii General Excise Tax	GET	0.04712		\$6,260.96				\$295.02
Others								\$295.02
								\$6,555.98

Patch Cords

Fiber Optic Cable Assemblies

- Full line of high quality single mode and multimode fiber optic cable assemblies
- All cables are 100% tested for insertion loss and back reflection
- Available in industry standard lengths in meters
- All connector boot lengths are 3mm
- Individual removable dust covers



GB S C 2 - D 4 - 03

Connector to Connector Configurations

FC2	FC to FC
FCC	FC to SC
FCT	FC to ST
LC2	LC to LC
LCC	LC to SC
LCT	LC to ST
MF2	MTRJ Female to MTRJ Female
MFC	MTRJ Female to SC
MFL	MTRJ Female to LC
MFT	MTRJ Female to ST
MM2	MTRJ Male to MTRJ Male
MMC	MTRJ Male to SC
MMF	MTRJ Male to MTRJ Female
MMT	MTRJ Male to ST
SC2	SC to SC
ST2	ST to ST
STC	ST to SC

Length

01 - 1 Meter	08 - 8 Meter
02 - 2 Meter	09 - 9 Meter
03 - 3 Meter	10 - 10 Meter
04 - 4 Meter	15 - 15 Meter
05 - 5 Meter	20 - 20 Meter
06 - 6 Meter	25 - 25 Meter
07 - 7 Meter	30 - 30 Meter

Fiber

- 1 - Single Mode 9/125 (Yellow Jacket)
Insertion loss < 0.2dB
- 2 - Multimode 62.5/125 (Orange Jacket)
Insertion loss < 0.3dB
- 3 - Multimode (Only) 50/125 (Blue Jacket)
Insertion loss < 0.3dB
- 4 - Multimode (Only) 50/125 850nm OM3
laser-optimized 10Gb (Aqua Jacket)
Insertion loss < 0.2dB

Cable Type

- S - Simplex
- D - Duplex

Ordering Example

GBSC2-D4-03

10Gb SC to SC duplex 50/125 microns
laser-optimized multimode - 3 Meters

New Products

Modules
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Coax

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Accessories

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CD Series Horns

Constant Directivity Re-Entrant Paging Horns



CD42

Specifications

Model	CD42
Dispersion	H, 40°, ±10°, 800Hz-10kHz V, 20°, ±10°, 2kHz-10kHz
Low Frequency Cut Off	300Hz
Air Column Length	5'
SPL (1W/1M) w/ PD60 Driver*	113dB
Bell Width	25.57" (649mm)
Bell Height	21.27" (540mm)
Bell Length	21.92" (556mm)
Weight	19lbs

* 1W/1M Averaged 300Hz to 3kHz



CD64

Model	CD64
Dispersion	H, 60°, ±10°, 600Hz-6kHz V, 40°, ±10°, 1000Hz-7kHz
Low Frequency Cut Off	300Hz
Air Column Length	4.5'
SPL (1W/1M) w/ PD60 Driver*	112dB
Bell Width	22.76" (578mm)
Bell Height	18.25" (463mm)
Bell Length	14.98" (380mm)
Weight	16lbs

* 1W/1M Averaged 300Hz to 3kHz



CD94

Model	CD94
Dispersion	H, 90°, ±10°, 900Hz-6kHz V, 40°, ±10°, 1000Hz-10kHz
Low Frequency Cut Off	300Hz
Air Column Length	4.5'
SPL (1W/1M) w/ PD60 Driver*	110dB
Bell Width	28.27" (718mm)
Bell Height	18.25" (463mm)
Bell Length	14.98" (380mm)
Weight	16lbs

* 1W/1M Averaged 300Hz to 3kHz

CS-302

Features

- High Efficiency Constant Directivity, Re-Entrant Horn Design
- Popular Coverage Patterns to Accommodate Most Applications
- Vertical Beamwidth Control Down to 1000Hz
- Heavy Duty Positive Locking Steel Mounting Bracket for Secure Positioning
- Environment – Resistant Construction for Indoor / Outdoor Applications
- Equipped With Standard 1 $\frac{1}{8}$ " – 18 Female Threads for Use with All PD Series Drivers

Applications

CD series feature the beamwidth control advantage of a constant directivity horn along with the benefit of exceptional high output as a result of the extended air column re-entrant design. Horizontal and vertical dispersion angles are precisely controlled over a broad frequency range. Combining CD series horns with the PD75T, PD60(I) or PD30(T) series compression drivers will provide excellent results in applications such as mass notification, transportation terminals, sporting venues, and other environmentally demanding locations.

General Description

Atlas Sound CD Series constant directivity re-entrant horns are designed for use with compression driver units to offer superior music and voice communications over distance and ambient noise. For versatile mounting applications, all models feature a heavy-duty steel bracket with positive lock for horizontal and vertical positioning in single or stacked unit clusters. To meet application requirements, the sound dispersion axis may be changed from horizontal to vertical via a 90° bell rotation and four $\frac{1}{4}$ " screws. CD Series horns are manufactured of non-resonant polyester resin and glass-fiber laminate integrally molded to a die-cast zinc throat section.

Architect & Engineer Specifications

CD42

Sound projector shall be Atlas Sound CD42 or approved equal. The weatherproof exponential-flared reflex type unit shall have an air column length of 5'. Low frequency cut-off shall be 300Hz. Unit shall have a dispersion angle of 20° in the plane of narrower horn dimension and 40° in the wider dimension. It shall be supplied with coupler to accept 1 $\frac{1}{8}$ "-18 threaded compression driver. The mounting bracket shall be of steel with choice of prime directional sound distribution emphasis via rotation of the horn bell. Bell size shall be 25.57" W x 21.27" H x 21.92" D. Sound projector shall be constructed of non-resonant fiberglass with spun aluminum re-entrant section. Projector shall have a black finish and weigh 19lbs.

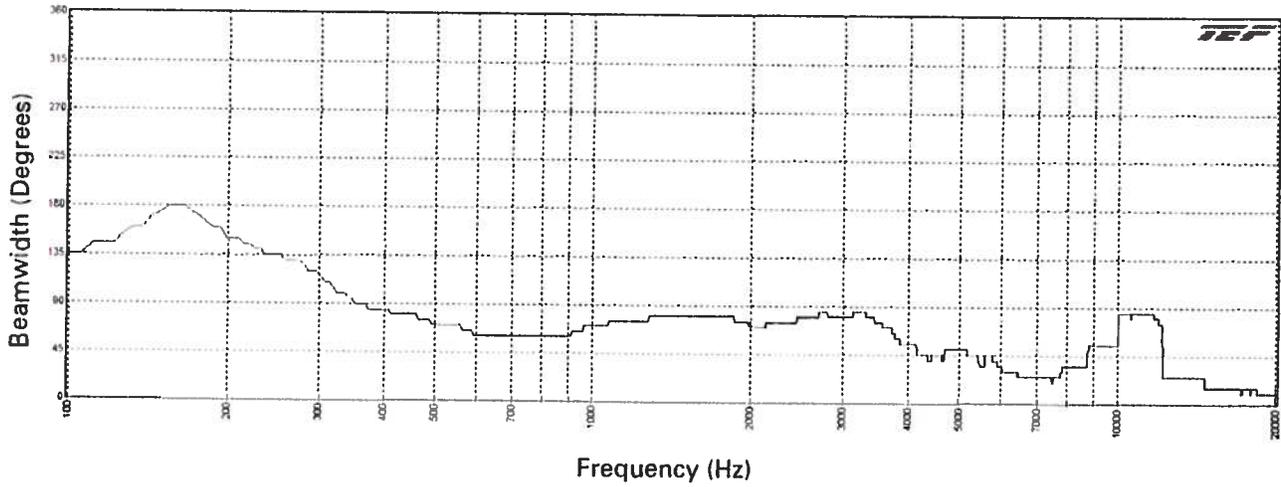
CD64

Sound projector shall be Atlas Sound CD64 or approved equal. The weatherproof exponential-flared reflex type unit shall have an air column length of 4.5'. Low frequency cut-off shall be 300Hz. Unit shall have a dispersion angle of 40° in the plane of narrower horn dimension and 60° in the wider dimension. It shall be supplied with coupler to accept 1 $\frac{1}{8}$ "-18 threaded compression driver. The mounting bracket shall be of steel with choice of prime directional sound distribution emphasis via rotation of the horn bell. Bell size shall be 22.76" W x 18.25" H x 14.98" D. Sound projector shall be constructed of non-resonant fiberglass with spun aluminum re-entrant section. Projector shall have a black finish and weigh 16lbs.

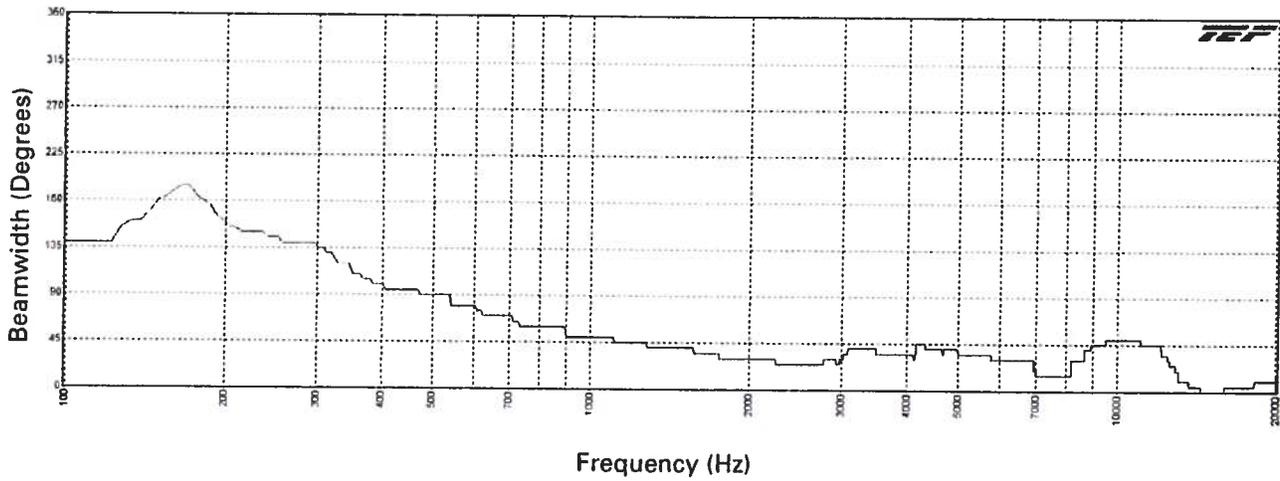
CD94 CS-302

Sound projector shall be Atlas Sound CD94 or approved equal. The weatherproof exponential-flared reflex type unit shall have an air column length of 4.5'. Low frequency cut-off shall be 300Hz. Unit shall have a dispersion angle of 40° in the plane of narrower horn dimension and 90° in the wider dimension. It shall be supplied with coupler to accept 1 $\frac{1}{8}$ "-18 threaded compression driver. The mounting bracket shall be of steel with choice of prime directional sound distribution emphasis via rotation of the horn bell. Bell size shall be 28.27" W x 18.25" H x 14.98" D. Sound projector shall be constructed of non-resonant fiberglass with spun aluminum re-entrant section. Projector shall have a black finish and weigh 19lbs.

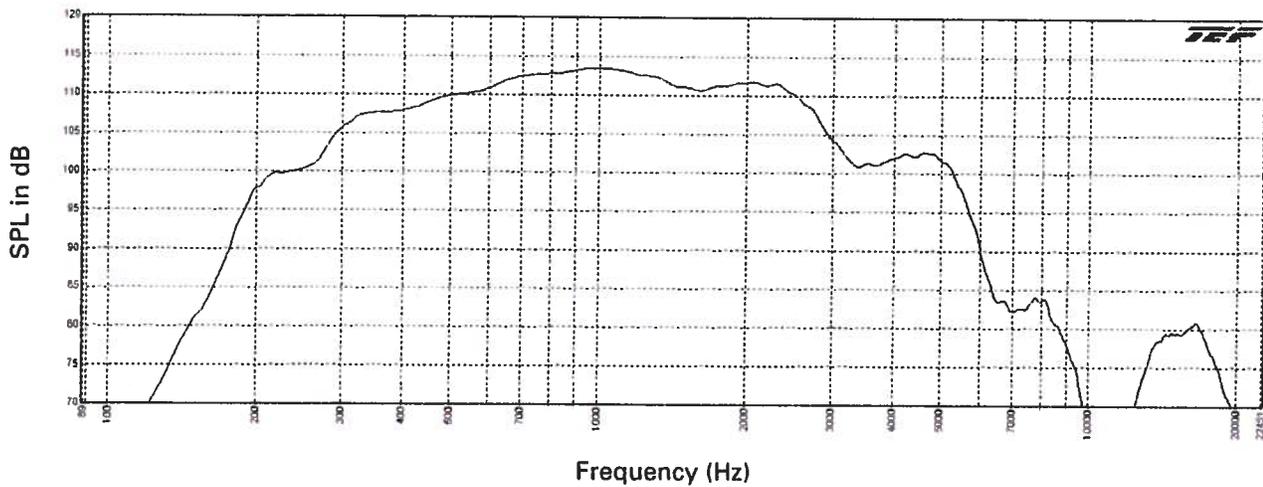
CD94 Horizontal Beamwidth (-6dB)



CD94 Vertical Beamwidth (-6dB)

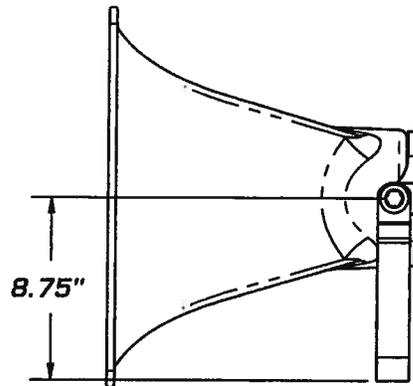
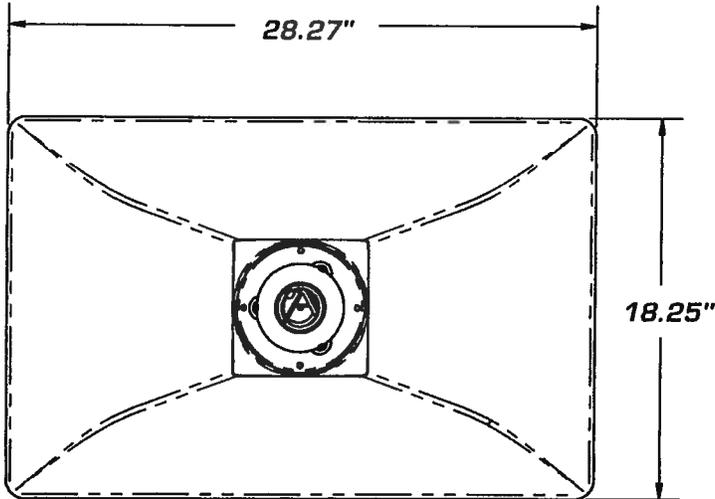
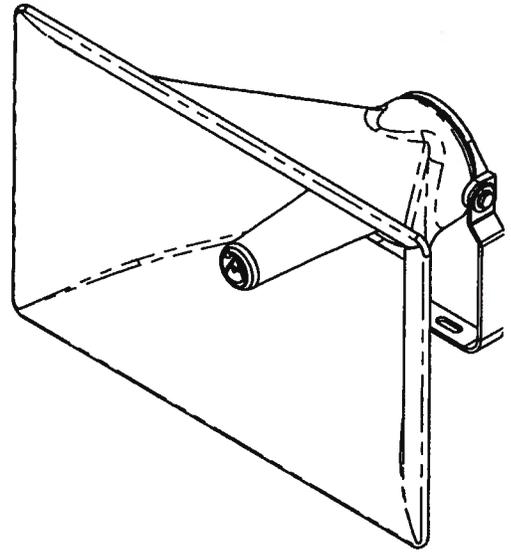
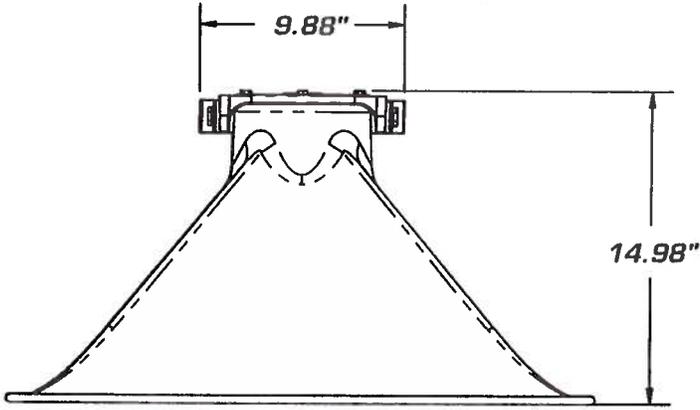


CD94 Frequency Response (Tested with a PD60A)



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CD94 Dimensions



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Amplifiers > Strategy Series > Specialty > PA1001G

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- Volume Controls
- Mic Stands
- IP Paging Solutions
- Atlas Power
- Atlas Learn
- Other
- Varizone

Tech Data Specifications



- 100W x 1, 70V/100V
- Ultra Efficient Amplification Technology
- Patent Pending, Through Chassis Mounting System for Use with Pole Mounted Projector Systems
- Multi Voltage Power Supply Allows for Worldwide Operation



PA1001G
Pole Mount Mono Channel 100W 70V/100V Amplifier System

This amplifier features an ultra compact design requiring only 1RU in height and 1/2 rack wide in space. The 100W into a 70V or 100V distributed system gives the power to meet most amplifier demands. The patent pending through hole chassis design makes it convenient to use with ceiling mounted video projectors. One or two units can be rack mounted also allowing it to be used in more traditional applications. Rack mount kit sold separately. Remote turn on is easily accomplished by either audio or AC trigger sensors. If focused power is required, an optional HI-pass filter is incorporated. Master remote level control is easily done via an external 10k potentiometer and a line out makes it easy to daisy chain amplifiers. The PA1001G has incorporated a mixer function that allows you connect two different sources to the amp. The summed RCA unbalanced inputs and the balanced input are electrically summed together and are electrically isolated from each other. The PA1001G can be used in many ways ranging from boardroom, restaurant, commercial paging and back ground music applications.



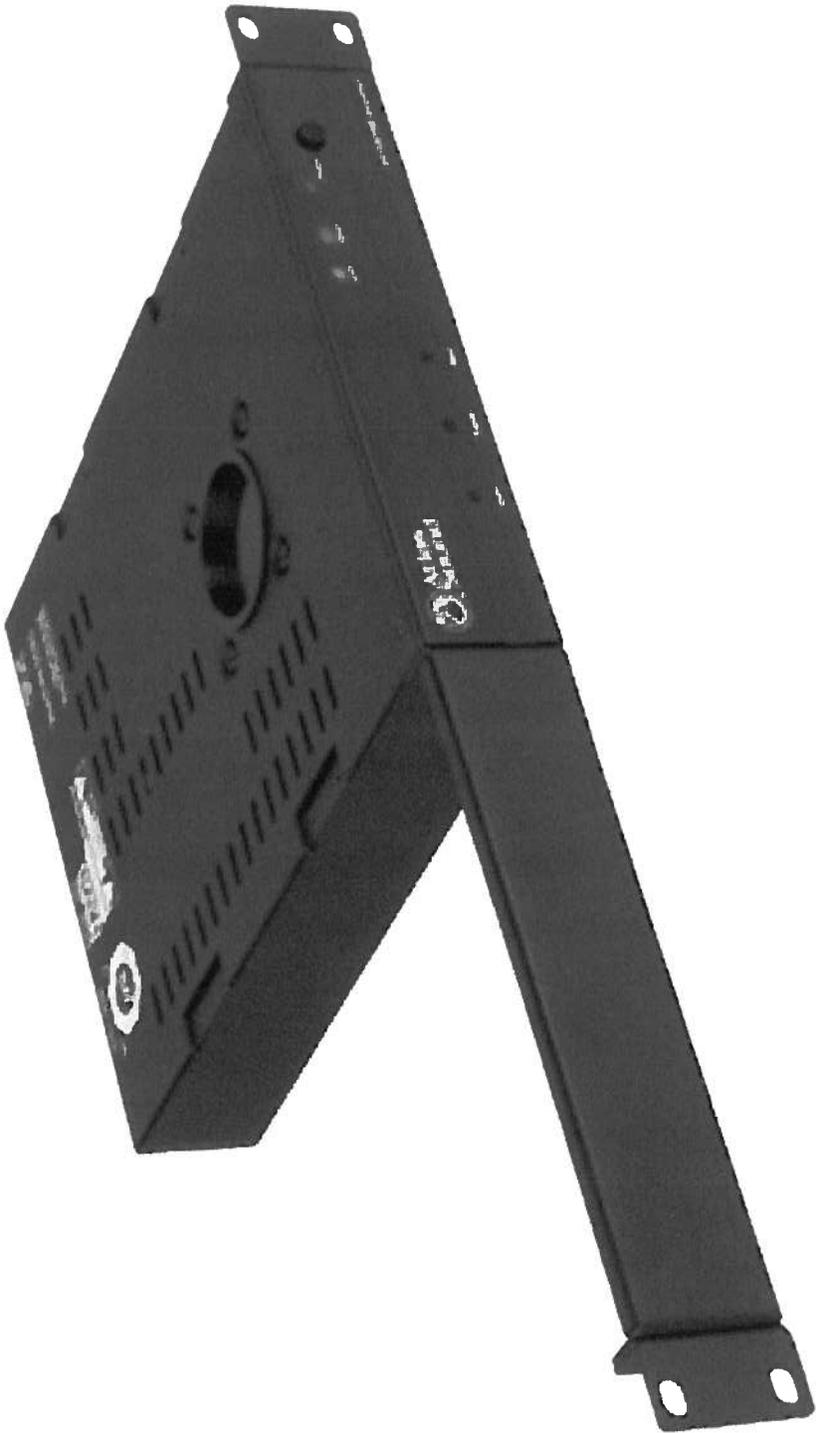
Syn-Aud-Con

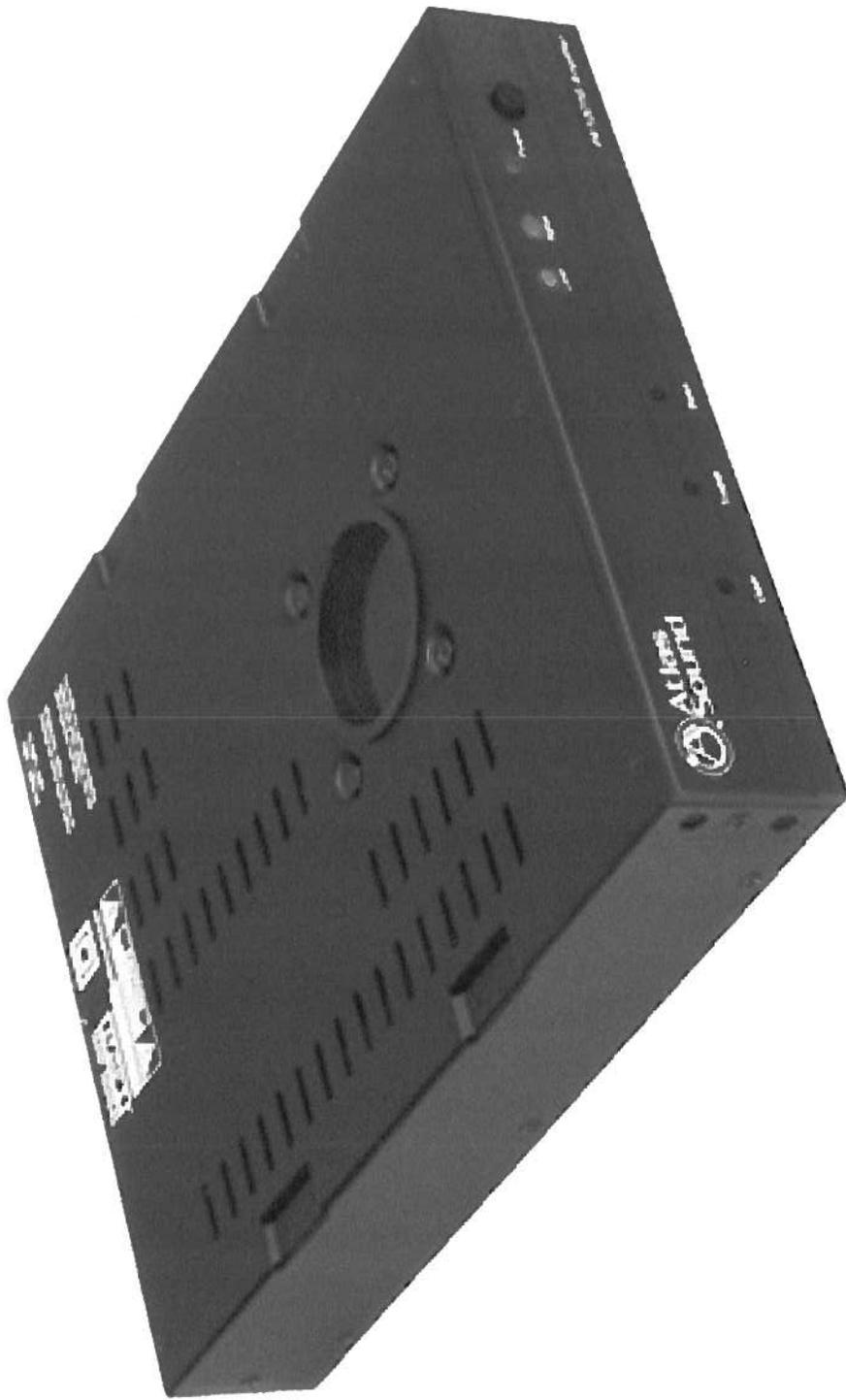
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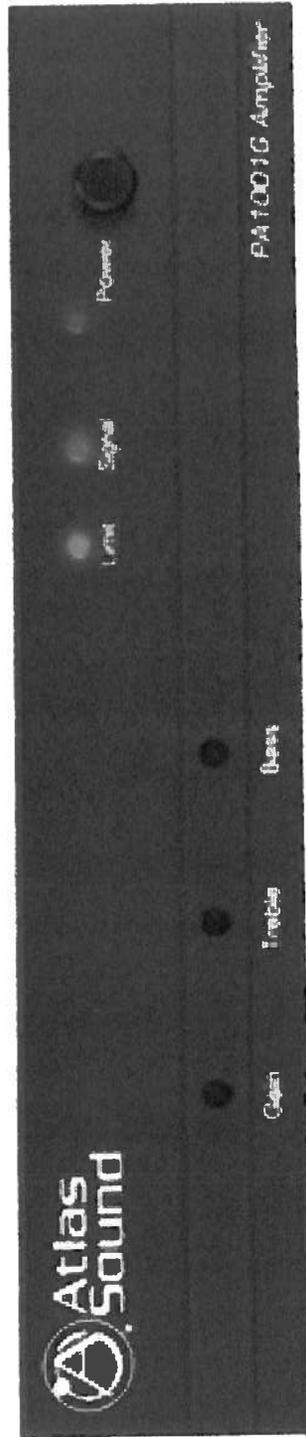
Tell Us About Your Install!

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PD75T

High Efficiency 75 Watt Compression Driver



PD75T

Features

- Outstanding Sound Reproduction and Power Handling For Signaling, Music, and Public Address Systems
- Extended Frequency Response Range For Optimum Intelligibility
- 75 Watt Power Rating
- Environment-Resistant Construction For Indoor/Outdoor Use
- Offered with Transformer and 16Ω Tap

Specifications

Power Rating	75 Watts
Plane Wave Freq. Resp.	100Hz – 3.7kHz (±5dB)
SPL 1mW PWT	116dB Avg. 300Hz – 3kHz (±3dB)
Impedance	16, 67, 133, 267, 533, 1100, & 2100Ω
Transformer Taps	2.36, 4.7, 9.4, 19, 38, & 75 Watts
Voice Coil Diameter	2" (50.8mm)
Height	7 ¹ / ₄ " (181mm)
Diameter	6 ¹ / ₄ " (157mm)
Weight	8.2lbs (3.72kg)

Applications

Atlas Sound Model PD75T is a versatile, 75 Watt, high power, compression driver designed for use in conjunction with Atlas Sound large format horns (Models CJ-46, BIA-100, DR Series, and CD Series) or other similar equipment. This driver provides maximum efficiency and extended heavy-duty performance. Model PD75T offers quality and durability to assure optimum penetration and excellent intelligibility in professional and commercial audio systems where increased sound projection and frequency response are demanded. The PD75T driver will provide powerful audio or signal reproduction with superior wide-range fidelity.

This unit is ideal for commercial sound, signaling, and public-address systems in applications such as manufacturing, recreation, and sports facilities, exhibit halls, commercial centers, shipping, and transportation terminals, malls, storage areas, and warehouses, etc.

General Description

Model PD75T is a fully environment-resistant 75 Watt driver for indoor or outdoor applications and is recommended for use in expansive and/or high ambient sound-level areas. This model features a sound chamber, phasing plug, magnetic-structure components machined to optimum tolerances, 2" voice coil and offers a plane wave frequency response of 100Hz – 3.7kHz (+5dB).

This unit, which is comprised of a transformer with 16Ω bypass, will meet a variety of applications. The PD75T provides screw-type terminals for matching direct to the 16Ω voice coil impedance and a built-in varnish impregnated, multi-tap 70.7 volt line-matching transformer. Corrosion-resistant terminal connections are protected by a transparent, impact-resistant plastic cover.

The PD75T is terminated in a standard 1¹/₄"-18 thread male couplings for use with screw-on horns, or with Atlas Sound Model YDA-TH adapters for bolt-on large format horns. Diaphragms are replaceable with appropriate equipment. A replacement diaphragm, model PD75TDIA, is available.

Internal components are enclosed within a protective die-cast and polycarbonate injection moulded housing and finished in grey baked epoxy.

IMPORTANT

To determine the proper capacitor to limit low frequency reproduction, find the low frequency cutoff for the horn projector you are using with the Atlas Sound PD75T driver. Locate this figure on the chart below in the left hand vertical column. Next, using the tap value you are using in Watts from the top horizontal column, follow down to find the recommended capacitor value.

Use non-polarized electrolytic capacitors rated at 150VDC or greater, wired in series with the positive lead of the speaker line, one per driver.

For 16Ω operation, remove the factory installed jumper and connect positive speaker line to 16Ω terminal.

Note: When non-standard values are indicated, use closest smaller value.

Capacitor Selection Chart

Impedance	67Ω	133Ω	267Ω	533Ω	1066Ω	2133Ω	16Ω
Tap	75 Watts	38 Watts	19 Watts	9.4 Watts	4.7 Watts	2.3 Watts	16Ω
150 Hz	15.8 uF	8.0 uF	4.0 uF	2.0 uF	1.0 uF	0.5 uF	66.3 uF
200 Hz	11.9 uF	6.0 uF	3.0 uF	1.49 uF	0.75 uF	0.37 uF	49.7 uF
250 Hz	9.5 uF	4.8 uF	2.4 uF	1.19 uF	0.60 uF	0.30 uF	39.8 uF
300 Hz	7.9 uF	4.0 uF	2.0 uF	1.00 uF	0.50 uF	0.25 uF	33.2 uF
350 Hz	6.8 uF	3.4 uF	1.7 uF	0.85 uF	0.427 uF	0.213 uF	28.4 uF
400 Hz	5.9 uF	3.0 uF	1.5 uF	0.75 uF	0.373 uF	0.187 uF	24.9 uF
500 Hz	4.8 uF	2.4 uF	1.2 uF	0.60 uF	0.299 uF	0.149 uF	19.9 uF
650 Hz	3.7 uF	1.8 uF	0.9 uF	0.46 uF	0.230 uF	0.115 uF	15.3 uF
800 Hz	3.0 uF	1.5 uF	0.75 uF	0.37 uF	0.187 uF	0.093 uF	12.4 uF
1000 Hz	2.4 uF	1.2 uF	0.60 uF	0.30 uF	0.149 uF	0.075 uF	9.9 uF
1200 Hz	2.0 uF	1.0 uF	0.50 uF	0.25 uF	0.124 uF	0.062 uF	8.3 uF
1600 Hz	1.5 uF	0.7 uF	0.37 uF	0.19 uF	0.093 uF	0.047 uF	6.2 uF

All Capacitor Values Above in uF (Microfarads). Use Non-Polarized Electrolytic Capacitors Rated at 150 VDC or Greater Connected in Series with Positive Speaker Input. Note: When Non-Standard Values are Indicated, Use the Closest Smaller Standard Value.

Architect & Engineer Specifications

Compression driver unit shall be Atlas Sound Model PD75T or approved equal. Unit shall have a full range power capacity of 75 Watts above the low frequency cutoff of the associated projector horn.

Rated frequency response shall be 300Hz – 3kHz (±3dB) measured on a plane wave tube at 1mW. Unit shall have a ceramic magnet and each driver shall have a 1mW sound pressure output capability level of 116dB (avg) 300Hz – 3kHz (±3dB). Low frequency limit at full power shall be 300Hz. Compression driver shall have a 2" diameter 16Ω voice coil constructed of cloth-based molded phenolic.

Driver with enclosed terminal shall be capable of standard indoor/outdoor use and be fully environment resistant. The units shall terminate in the industry standard 1/4"-18 thread pattern and a .707" inch throat.

Diaphragm shall be field-replaceable and shall be high-temperature molded phenolic with a roll-type, flex-point suspension.

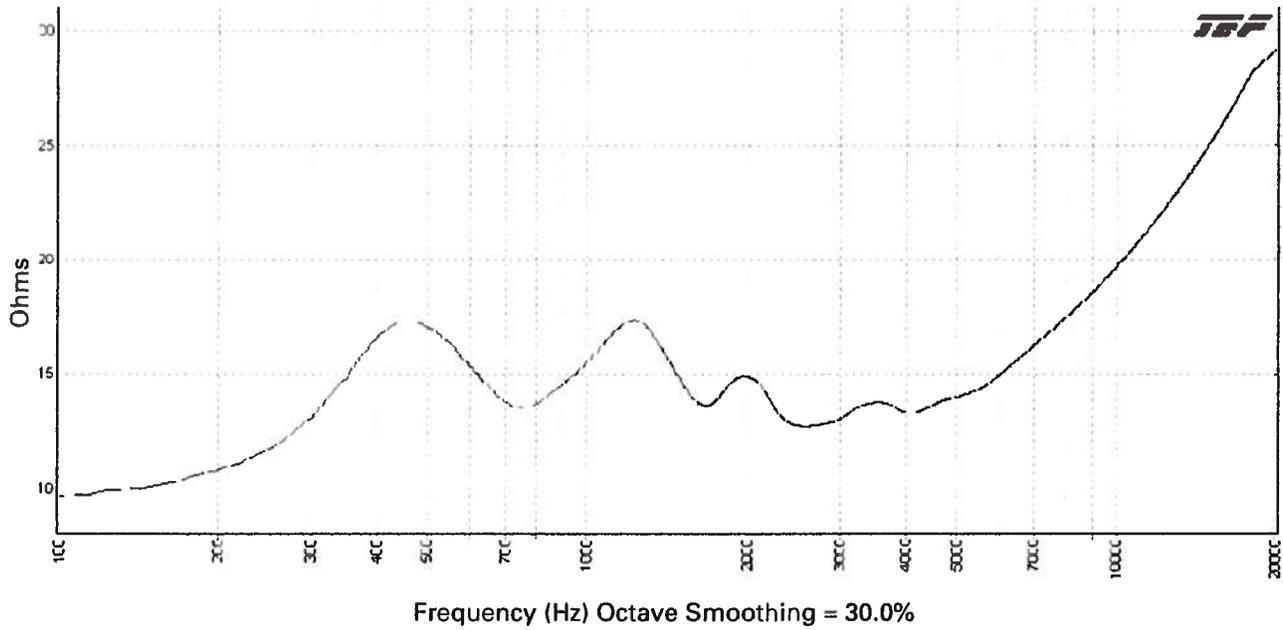
Model PD75T shall have a nominal impedance of 16Ω, and shall be equipped with a 70.7V transformer having power taps of 2.3, 4.7, 9.4, 19, 38, and 75 Watts.

Impedance and power taps shall be clearly identified and referenced on screw-terminal board.

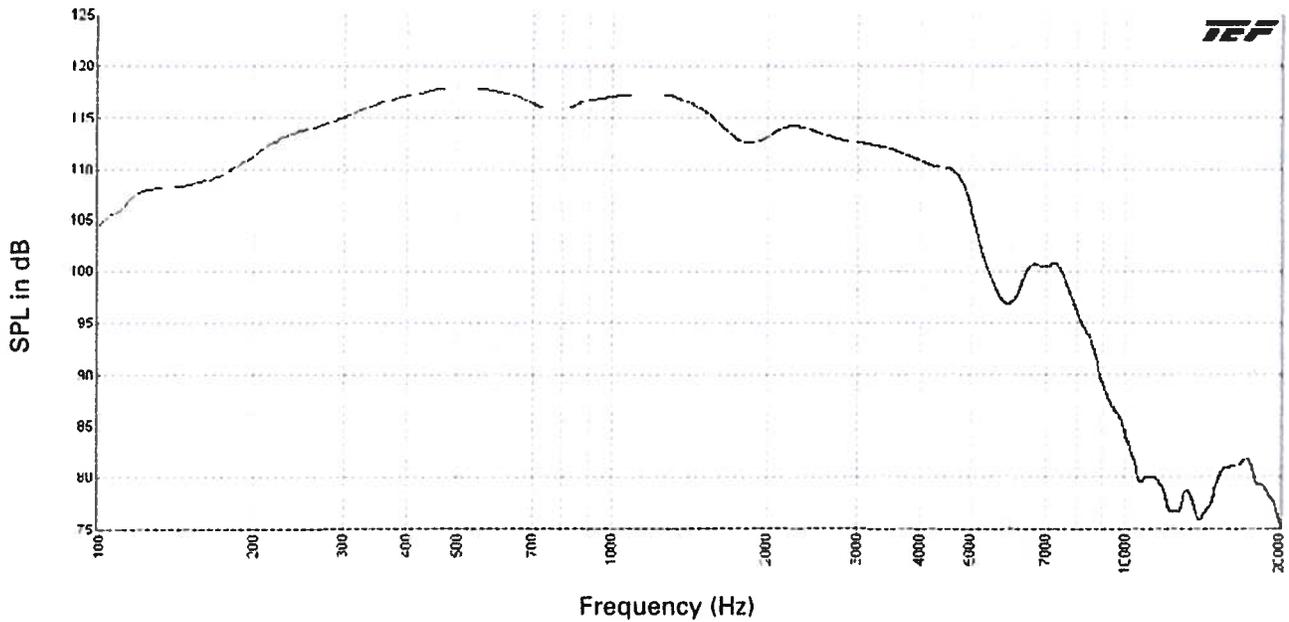
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PD75T Impedance

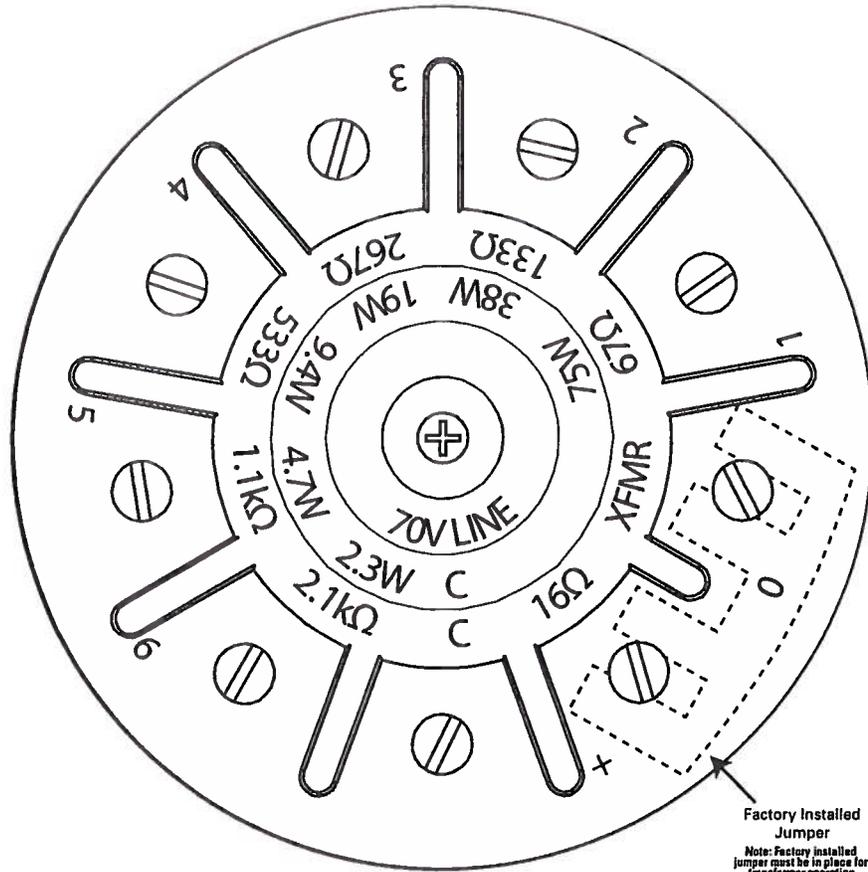


PD75T Sensitivity



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Terminal Block Illustration



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Complex Problems

I need an amplifier that will be reliable! Post installation service calls are costly.

The amplifier must be versatile enough to work in many different applications scenarios.

If there is a problem or a question the manufacturer must be accessible and responsive.

Atlas Solutions

Strategy Series® Mixer / Power Amplifiers

- Uniquely Engineered for Years of Trouble Free Performance
- A Full Compliment of Useful, Contractor Friendly Application Features
- 3-Year Advance Replacement Warranty and the Industry's Best Customer Support Team



Ask your Atlas Representative for details and discover how the simple solution is the Atlas Solution!



VARIZONE
VARIZONE AUDIO & VIDEO EQUIPMENT

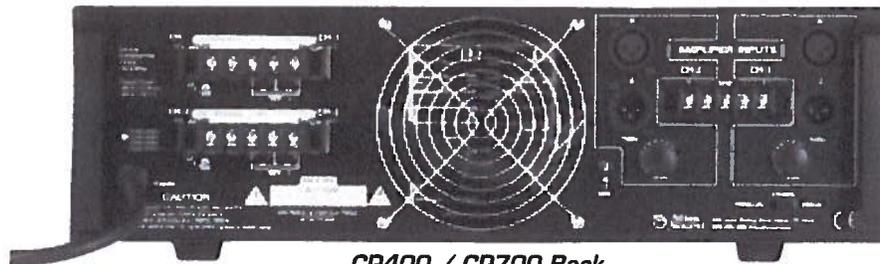
ISO9001
REGISTERED



CP400 / CP700

- Commercial Duty Stereo Power Amplifiers
- Two High Quality Internal Toroidal Transformers Provide Isolation in 25V, 70.7V, 100V Stereo or 140V / 200V Bridge Mode Operation
- 30-Position Rear Panel Stepped Input Gain Controls
- Terminal Block and XLR Input
- Automatic, Dual Speed, High Efficiency Fan Cooling
- Short Circuit, Thermal, and DC Offset Protection
- UL Listed

Professional grade audio power amplifiers specifically designed for demanding contractor applications feature esoteric grade toroidal power supply and output transformers. These transformers were chosen for their outstanding reliability as well as extended frequency response (-3 dB @ 30 Hz - 70.7V output through transformer). Now you can have the peace of mind that systems will have true transformer output isolation, a feature that previously may have not been affordable due to the cost of quality external transformers. Independent channels are driven by separate power supplies to ensure maximum channel separation and ultra low distortion figures while providing years or faithful service. Whether your application is a large distributed constant voltage sound system or a high SPL sound reinforcement system, the Atlas Sound CP Series is the perfect answer.

**CP400 / CP700 Front****CP400 / CP700 Back****Amplifier Accessories**

AA-TG	3 Tone Chime Generator Module – AA120M
A-ML	Mic / Line Input Module with Remote Volume (VCA) – AA120M
AA-SMG	Sound Masking Generator Module with EQ and Patch Point for External Processors – AA120M
AA-PPRC	Priority Page Relay Controller
AAIT-600	600 Ω Isolation Input Transformer for all AA Series
AARMK2-0	Rack Mount Kit for One AA120 / AA240 or One AA120M
AARMK2-5	Rack Mount kit for One or Two AA35, AA60, or PA601
PA702-RMK	Rack Mount Kit for One or Two PA702.
AAVCC-5	5-Piece Security Cover Kit for All AA Series
AAVC-10K	10K Linear pot on Decora plate for VCA use with AA120 / AA240, AA120M (includes white and ivory inserts, knobs and trim ring)


VARIZONE
COMMERCIAL AUDIO SYSTEMS
ISO9001
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Complex Problems

Today's outdoor sports facilities demand sound systems capable of delivering exceptional sound quality, high output and precise pattern control.

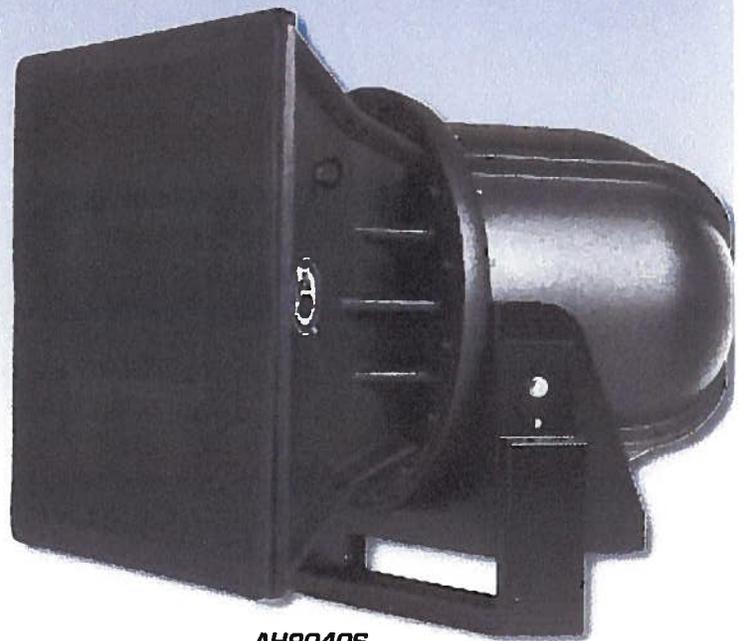
Coverage patterns and mounting scenarios vary greatly – One size will *not* fit all!

Installation hardware has to be included or made easy with the implementation of 3rd party mounting solutions.

Atlas Solutions

AH Series Stadium Horn Systems from Atlas Sound

- Precision engineered dispersion patterns provide maximum SPL capabilities while maintaining audio integrity and intelligibility.
- 8", 12", & 15" solutions, each available in three popular coverage patterns: 50° x 40°, 65° x 65°, & 90° x 40° for 15" models, 90° x 90°, 65° x 65°, & 90° x 40° for 8" & 12" models.
- All models (except AHSUB15S) include a versatile stainless steel mounting bracket. Alternatively, Atlas Sound offers Allen Products mounting solutions for easy pole mount installation.



AH9040S



Ask your Atlas Representative for details and discover how the simple solution is the Atlas Solution!



VARIZONE
GEORGE & BILLY WRIGHT SYSTEM

ISO9001
UL
EQUIPMENT

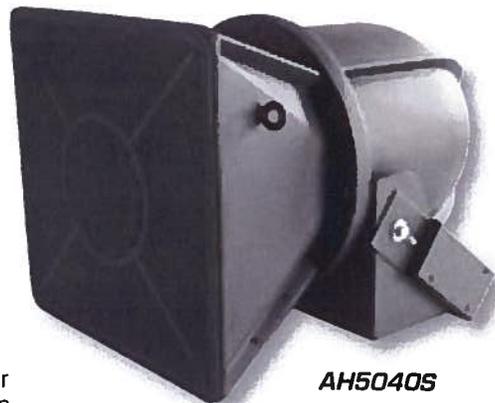
The AH Series Stadium Loudspeakers offer the most often requested coverage patterns while providing excellent intelligibility for the most challenging environments including large auditoriums & sport fields. With a complete family of 8", 12", and 15" 2-way systems, designers and specifiers can select models for whatever SPL is required with the peace of mind that all units will provide outstanding pattern control.

90° H X 90° V models (8" and 12" models only) are suggested for shorter loudspeaker to listener distances and/or wider coverage requirements such as bleacher seating where the speaker may be in close proximity to the crowd.

65° H X 65° V (8", 12" and 15" models) square coverage pattern models are perfect for down-firing applications including convention centers.

90° H X 40° V patterns (8", 12" and 15" models) work well when longer speaker to listener distances require a tighter vertical coverage pattern.

15" AH series models offer an even slightly tighter pattern of 50° H X 40° V. This device is often mounted atop football field press boxes with the device aimed at the visitor side in conjunction with wider coverage pattern models to cover the home side bleachers.


AH5040S

Common Design Features

Multiple stainless steel mesh screens protect internal drivers from weather and pest damage. A primary rodent screen provides protection for all components, a secondary screen resides between the high frequency horn and the driver, and a third perforated screen protects the woofer.

Heavy-duty stainless steel mounting brackets are included with all models and three dropforge eyebolts are also included for overhead suspension (use only load-rated & approved hardware). For light pole mounting Atlas Sound also distributes matching mounting accessories from Allen Products. (see back)

15" models AH9040S, AH6565S and AH5040S feature impressive, full range sound reproduction via a high excursion low frequency woofer and a concentrically mounted 1" exit compression driver. A well-designed, highly efficient internal passive crossover network ensures proper transition between the two drivers, which collectively provide frequency response from 75 Hz – 14.5 kHz (± 5 dB).

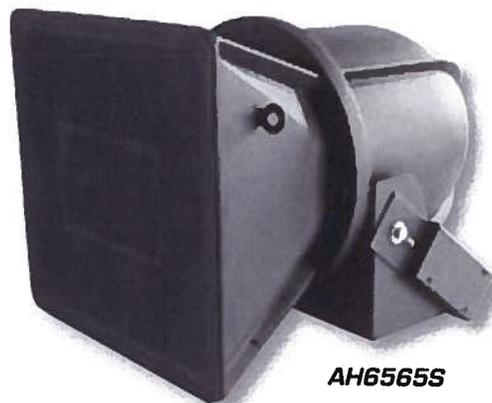

AH9040S

With an efficiency rating in excess of 102 dB (1 W / 1 M), the 15" AH Series is a perfect choice for high-energy music playback at sporting events and extended range speech reinforcement for large venue emergency notification. The 8 Ω rating allows maximum low frequency response and is a good match with Atlas Sound model CP700 amplifier. If transformer operation is required for long runs of smaller gauge cable please contact tech support for proper configuration and use of model AF140 auto-former. Termination is via rear mounted terminal block with a Plexiglas cover for weather resistance.

The 8" & 12" 2-way models are perfect for applications where space considerations will not allow installation of the larger 15" 2-way models. All 8" & 12" models include a 60 watt, 70.7V / 100V internal transformer which is accessed via terminal block connector sealed by a weather resistant cover. Transformer may also be bypassed for direct coupled 8 Ω operation.

12" AH models feature a version of the popular 12CXT60 compression driver coaxial loudspeaker.

8" 2-way AH models feature a version of the popular 8CXT60 compression driver coaxial loudspeaker.


AH6565S

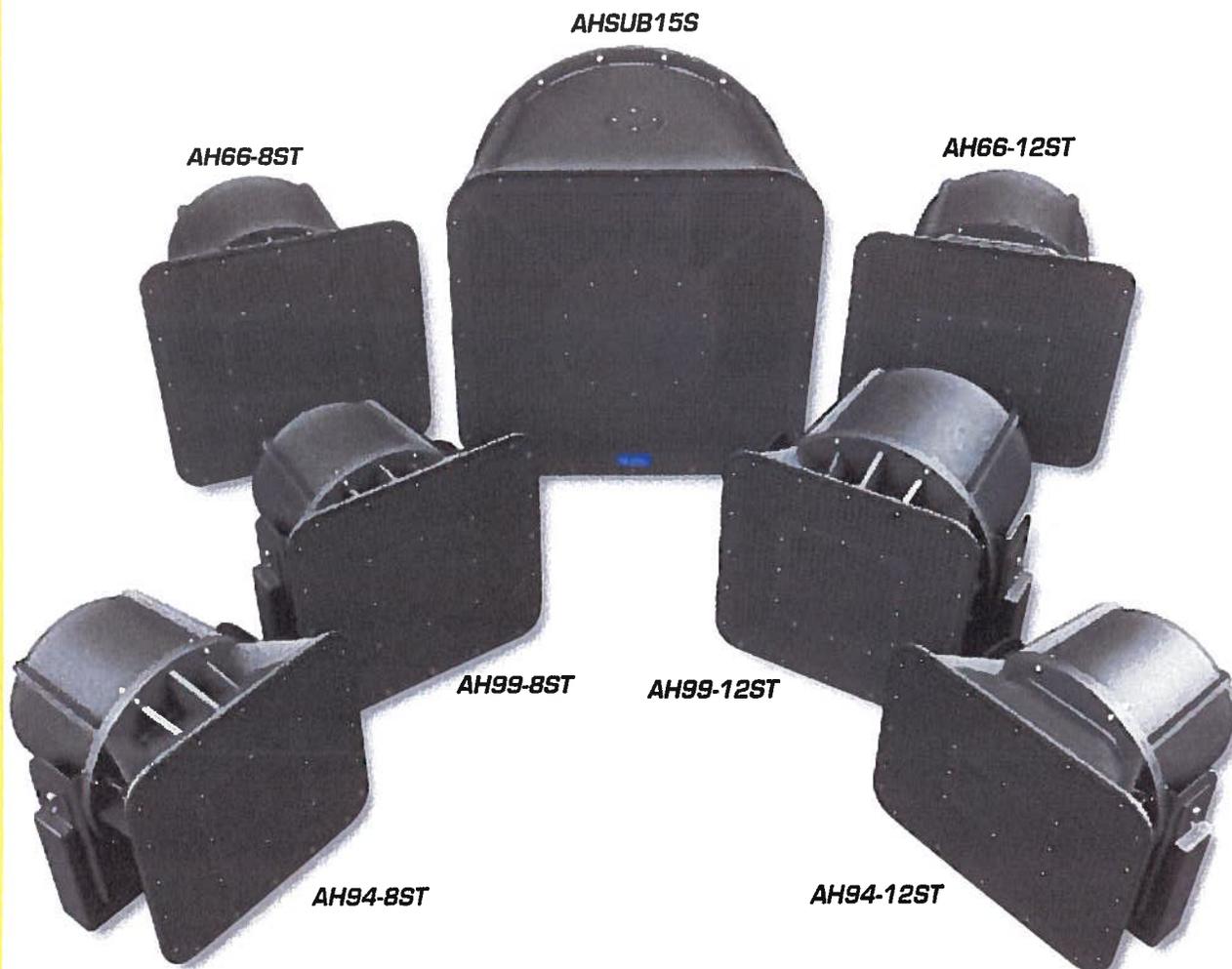
15" Stadium Subwoofer

A perfect complement to any AH Series full range device, the AHSUB15S will provide extended low frequency response to add presence to any high energy music playback system. A specially designed, rear firing 15" cast frame woofer is mounted into a high volume chamber for optimum loading and output. These design elements provide an impressive frequency response down to 55 Hz (-5 dB) for accurate bass response. The AHSUB15S is capable of handling up to 250 watts RMS, providing output in excess of 126 dB (Rated power @ 1 Meter). Three eyebolt suspension points are provided along with mounting locations to allow stacked installation of other AH models.

Subwoofer Mounting Solutions

AHSUBSTAND allows the easy installation of the AHSUB15S under bleacher seating or other areas where concrete slab mounting is possible. Stand provides secure mounting of the AHSUB15S in a down firing configuration to maximize output performance while helping to prevent theft and weather damage.

Holes are provided on the bracket feet for anchor points when mounting on concrete slab and additional holes are located on the frame to allow the AHSUB15S to be attached to the frame via chain or cable (not included) for optimal security.



Allen Products – Mounting Solutions

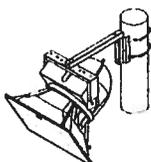
As a convenience to our dealers Atlas Sound is proud to provide quality mounting solutions from Allen Products to facilitate pole mounting of the AH Series Stadium Horns. Please call Atlas Sound Customer Service at 800.876.3333 for assistance in choosing the correct hardware for your installation. Application drawings are available at www.atlassound.com. Safety cables are strongly recommended on all installations.

Note: Installation of this product must only be implemented by a qualified contractor.

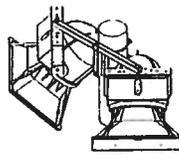
Before purchasing the necessary parts we recommend you review all documentation and have a complete understanding of the requirements for your installation. Every installation is different and there are many options available to meet the installation requirements. Some slight modifications may be required to the product to meet the installation requirements.

AH Series Application Guides

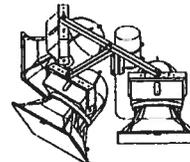
- Single AH Pole Mount 8', 12", & 15"
- Double AH Pole Mount 8', 12", & 15"
- Triple AH Pole Mount 8', 12", & 15"
- Safety Strap Installation



Single Pole Mount Application



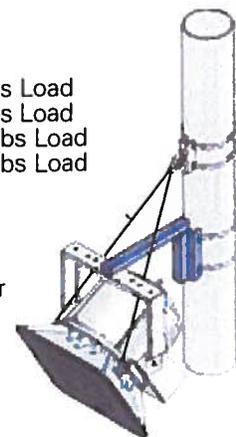
Double Pole Mount Application



Tripple Pole Mount Application

Available Parts (Call for Availability)

- AH-PM-SAFETY-6DOWN Safety Pole Clamp, for Poles 2" - 6" in Diameter
- AH-CC-096-S Safety Cable, Adjustable to 96"
- AH-PM-BAND-20S Pole Mount Strap 20" for Poles 2" - 6" in Diameter, 150 lbs Load
- AH-PM-BAND-30 Pole Mount Strap 30" for Poles 4" - 9" in Diameter, 300 lbs Load
- AH-PM-BAND-60 Pole Mount Strap 60" for Poles 4" - 19" in Diameter, 300 lbs Load
- AH-PM-BAND-90 Pole Mount Strap 90" for Poles 4" - 28" in Diameter, 300 lbs Load
- AH-PM-DA-24 Pole Mount Adaptor, Dual Mount, 24"
- AH-PM-DA-36 Pole Mount Adaptor, Dual Mount, 36"
- AH-PM-DA-48 Pole Mount Adaptor, Dual Mount, 48"
- AH-PM-MOUNT-6DOWN Pole Mount Adaptor Bracket for Poles 2" - 6" in Diameter
- AH-PM-MOUNT-6UP Pole Mount Adaptor Bracket for Poles for 6" + in Diameter
- AH-PM-SA-12 Pole Mount Support Arm, 12"
- AH-PM-SA-18 Pole Mount Support Arm, 18"
- AH-PM-SA-24 Pole Mount Support Arm, 24"



Safety Strap Single Pole Mount Application

Model	Power Handling	Impedance / Transformer Taps	Sensitivity (1 W / 1 M)	Frequency Response	Dispersion (H x V)	Height	Width	Depth
AH5040S	250 watts	8 Ω	104 dB	75 Hz -14.5 kHz	50° x 40°	23.75" (603.25 mm)	21.41" (543.81 mm)	30.07" (763.78 mm)
AH6565S	250 watts	8 Ω	102 dB	75 Hz -14.5 kHz	65° x 65°	23.75" (603.25 mm)	21.41" (543.81 mm)	30.08" (764.03 mm)
AH9040S	250 watts	8 Ω	102 dB	75 Hz -14.5 kHz	90° x 40°	24.91" (632.71 mm)	29.57" (751.08 mm)	29.65" (753.11 mm)
AH99-12ST	200 watts	7.5, 15, 30, & 60 watts / 8 Ω	103 dB	80 Hz -14 kHz	90° x 90°	25.68" (652.27 mm)	22.06" (560.32 mm)	22.57" (573.28 mm)
AH94-12ST	200 watts	7.5, 15, 30, & 60 watts / 8 Ω	103 dB	80 Hz -14 kHz	90° x 40°	24.68" (626.87 mm)	22.06" (560.32 mm)	22.57" (573.28 mm)
AH66-12ST	200 watts	7.5, 15, 30, & 60 watts / 8 Ω	102 dB	80 Hz -14 kHz	65° x 65°	23.88" (606.55 mm)	21.41" (543.81 mm)	22.57" (573.28 mm)
AH99-8ST	100 watts	7.5, 15, 30, & 60 watts / 8 Ω	101 dB	90 Hz - 10 kHz	90° x 90°	21.88" (555.75 mm)	19.66" (499.36 mm)	19.73" (501.14 mm)
AH94-8ST	100 watts	7.5, 15, 30, & 60 watts / 8 Ω	101 dB	90 Hz - 14 kHz	90° x 40°	20.05" (509.27 mm)	19.66" (499.36 mm)	19.73" (501.14 mm)
AH66-8ST	100 watts	7.5, 15, 30, & 60 watts / 8 Ω	100 dB	90 Hz - 14 kHz	65° x 65°	20.95" (532.13 mm)	17.91" (454.91 mm)	20.98" (532.89 mm)
AHSUB15S	250 watts	8 Ω	103 dB	55 Hz - 120 Hz	OMNI	30.56" (776.22 mm)	30" (762 mm)	28.16" (715.26 mm)



8477 Multi-Conductor - High-Conductivity Copper Speaker Cable Twisted Jacket Con



For more Information
please call

1-800-Belden1



Description:

12 AWG stranded (65x30) tinned copper conductors, PVC insulation, twisted pair, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
1	12	65x30	TC - Tinned Copper

Insulation

Insulation Material:

Insulation Material	Wall Thickness (In.)
PVC - Polyvinyl Chloride	.032

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (In.)
PVC - Polyvinyl Chloride	.035

Overall Cabling

Overall Nominal Diameter: 0.386 in.

Pair

Pair Color Code Chart:

Number	Color
1	Black & White

Pair Lay Length & Direction:

Lay Length (In.)	Twists/ft. (twist/ft)
2.400	4.900

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +90°C
Non-UL Temperature Rating:	90°C (UL AWM Style 2587)
Bulk Cable Weight:	77 lbs/1000 ft.
Max. Recommended Pulling Tension:	150 lbs.
Min. Bend Radius (Install)/Minor Axis:	7.700 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CL3R
AWM Specification:	UL Style 2587 (600 V 90°C)
EU CE Mark:	Yes

8477 Multi-Conductor - High-Conductivity Copper Speaker Cable Twisted Jacket Con

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Flame Test

UL Flame Test:	UL1685 UL Loading
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Inductance:

Inductance ($\mu\text{H}/\text{ft}$)
0.18

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
35

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
1.8

Max. Operating Voltage - UL:

Voltage	Description
300 V RMS	CL3R
600 V RMS	UL AWM Style 2587

Max. Recommended Current:

Current
13 Amps per conductor @ 25°C

Notes (Overall)

Notes: See NEC Guidelines for applicable CL3 voltage ratings.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8477 060U500	500 FT	41.500 LB	CHROME		2 #12 PVC FRPVC
8477 0601000	1,000 FT	87.000 LB	CHROME	C	2 #12 PVC FRPVC
8477 060500	500 FT	43.500 LB	CHROME	C	2 #12 PVC FRPVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 09-18-2008

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8477 Multi-Conductor - High-Conductivity Copper Speaker Cable Twisted Jacket Con

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8718 Multi-Conductor - Single-Pair Cable



For more Information
please call

1-800-Belden1



Description:

12 AWG stranded (19x25) TC conductors, polyethylene insulation, twisted pair, overall Beldfoil® shield (100% coverage), 14 AWG stranded TC drain wire, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
1	12	19x25	TC - Tinned Copper

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
PE - Polyethylene	.037

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil® (Z-Fold®)	Tape	Aluminum Foil-Polyester Tape	100

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire	Conductor Material
14	Stranded	TC - Tinned Copper	

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.040

Overall Cabling

Overall Nominal Diameter: 0.400 in.

Pair

Pair Color Code Chart:

Number	Color
1	Black & Clear

Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
2.000	6.000

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 20253)
Bulk Cable Weight:	93 lbs/1000 ft.
Max. Recommended Pulling Tension:	225 lbs.
Min. Bend Radius (Install)/Minor Axis:	4 in.

8718 Multi-Conductor - Single-Pair Cable

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CL2
AWM Specification:	UL Style 20253 (600 V 80°C)
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
Mil Order #39 (China RoHS):	Yes
Other Specification:	C(UL) AWM II, A

Flame Test

UL Flame Test:	UL1685 UL Loading
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)	55
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Nom. Inductance:

Inductance (µH/ft)	.2
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Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)	25
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Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)	49
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Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)	1.6
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Max. Operating Voltage - UL:

Voltage	600 V RMS (UL AWM Style 20253); 300 V RMS (CSA)
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Max. Recommended Current:

Current	12.5 Amps per conductor @ 25°C
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Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8718 060U500	500 FT	47.500 LB	CHROME		2 #12 PE SHLD PVC
8718 0601000	1,000 FT	100.000 LB	CHROME	C	2 #12 PE SHLD PVC
8718 0602000	2,000 FT	198.000 LB	CHROME	C	2 #12 PE SHLD PVC
8718 060500	500 FT	46.000 LB	CHROME	C	2 #12 PE SHLD PVC

Notes:

C = CRATE REEL PUT-UP.

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

8718 Multi-Conductor - Single-Pair Cable

Revision Number: 2 Revision Date: 10-16-2009

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

9154 Multi-Conductor - Single-Pair Cable

For more information
please call

1-800-Belden1

**Description:**

20 AWG stranded (7x28) TC conductors, PVC insulation, twisted pair, overall Beldfoil® shield (100% coverage), 22 AWG stranded TC drain wire, PVC jacket.

Physical Characteristics (Overall)**Conductor****AWG:**

# Pairs	AWG	Stranding	Conductor Material
1	20	7x28	TC - Tinned Copper

Insulation**Insulation Material:**

Insulation Material	Wall Thickness (in.)
PVC - Polyvinyl Chloride	.014

Outer Shield**Outer Shield Material:**

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil® (Z-Fold®)	Tape	Aluminum Foil-Polyester Tape	100

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire	Conductor Material
22	7x30	TC	Tinned Copper

Outer Jacket**Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.031

Overall Cabling

Overall Nominal Diameter: 0.198 in.

Pair**Pair Color Code Chart:**

Number	Color
1	Black & Red

Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
1.500	8.000

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2464)
Bulk Cable Weight:	19.900 lbs/1000 ft.
Max. Recommended Pulling Tension:	39 lbs.
Min. Bend Radius (Install)/Minor Axis:	2 in.

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

9154 Multi-Conductor - Single-Pair Cable

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
AWM Specification:	UL Style 2464 (300 V 80°C)
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Flame Test

C(UL) Flame Test:	FT4
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
36

Nom. Inductance:

Inductance (µH/ft)
.18

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
60

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
100

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
9.5

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
11.4

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

Current
4 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9154 290U1000	1,000 FT	22.000 LB	BEIGE, LIGHT		2 #20 PVC SHLD PVC
9154 290U500	500 FT	11.500 LB	BEIGE, LIGHT		2 #20 PVC SHLD PVC

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

9154 Multi-Conductor - Single-Pair Cable

9154 2901000	1,000 FT	23,000 LB	BEIGE, LIGHT	C	2 #20 PVC SHLD PVC
9154 290500	500 FT	12,000 LB	BEIGE, LIGHT	C	2 #20 PVC SHLD PVC

Notes:

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Revision Number: 1 Revision Date: 10-03-2008

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