Quartet™

Family of LV Leads

1458Q

1456Q

1457Q

1458QL

Product Highlights

- MRI Ready lead tested in combination with MR Conditional devices for full-body scans using a 1.5 T (Tesla) field strength scanner*
- Proven Quartet™ LV lead performance with additional Quadripolar lead options to match a patient's anatomy
- The Quartet™ Family of LV leads offers more distal shape options including the Large-S and Small-S as well as more total electrode spacing options including 40, 47 and 60 mm
- Four unique pacing electrodes to provide more options and greater control in pacing vector selection
- Superb deliverability with exceptional stability and performance
- Low profile — 4.7 F lead body; 4.0 F lead tip
- Optim™ lead insulation—a chemical co-polymer with proven strength and durability, demonstrating long-term abrasion resistance and biostability[1,2]
- Steerable tip — distal tip angle can be controlled to maneuver through venous anatomy
- Flexible lead body — narrow ring electrodes provide lead tip flexibility
- Allows Direct-To-Target™ delivery placement through CPS Aim™ SL slittable inner catheter to deliver leads to small, acute venous anatomies that may have been unreachable in the past
- Compatible with over-the-wire guidewire or stylet approaches

Ordering Information

Contents: Left-heart lead

MODEL NUMBER	SHAPE	TOTAL ELECTRODE SPACING (MM)	INSULATION	MINIMUM CURVE HEIGHT	LEAD BODY (F)	CONNECTOR	LENGTHS (CM)
1458Q	Traditional S	47	Optim™	16	4.7	IS4-LLLL	75, 86, 92
1456Q	Small-S	40	Optim™	8	4.7	IS4-LLLL	75, 86
1457Q	Double Bend	47	Optim™	16	4.7	IS4-LLLL	75, 86
1458QL	Traditional S	60	Optim™	16	4.7	IS4-LLLL	75, 86

*For additional information about specific MR conditional device and lead model numbers, including warnings, precautions, adverse conditions to MRI scanning, and potential adverse events please refer to Abbott's MRI Ready Systems Manual at manuals.sjm.com.

Indications and Usage: The Quartet lead has application as part of a Abbott's biventricular system.

Contraindications: The use of the Quartet lead is contraindicated in patients who:

- Are expected to be hypersensitive to a single dose of 1.0 mg of dexamethasone sodium phosphate.
- Are unable to undergo an emergency thoracotomy procedure.
- Have coronary venous vasculature that is inadequate for lead placement, as indicated by venogram.Refer to the User's Manual for detailed indications, contraindications, warnings, precautions and potential adverse events.

Physical Specifications

MODELS	1458Q	1456Q	1457Q	1458QL
Parameter	**Description**	**Description**	**Description**	**Description**
Connector	IS4-LLLL	IS4-LLLL	IS4-LLLL	IS4-LLLL
Lead Length	75; 86; 92 cm	75; 86	75; 86 cm	75; 86
Maximum Lead Size	5.1 F (1.70 mm/0.067") at the ring electrode	5.1 F (1.70 mm/0.067") at the ring electrode	5.1 F (1.70 mm/0.067") at the ring electrode	5.1 F (1.70 mm/0.067") at the ring electrode
Lead Body Size	4.7 F (1.57 mm/0.062")	4.7 F (1.57 mm/0.062")	4.7 F (1.57 mm/0.062")	4.7 F (1.57 mm/0.062")
Tip Electrode Size	4.0 F (1.3 mm/0.052")	4.0 F (1.3 mm/0.052")	4.0 F (1.3 mm/0.052")	4.0 F (1.3 mm/0.052")
LV Lead Delivery System Introducer Size	Minimum 5.9 F ID	Minimum 5.9 F ID	Minimum 5.9 F ID	Minimum 5.9 F ID
Minimum Curve Height	16 mm	8 mm	16 mm	16 mm
Tip Electrode	Pt/Ir; TiN coated; ring-shaped; two grooves	Pt/Ir; TiN coated; ring-shaped; two grooves	Pt/Ir; TiN coated; ring-shaped; two grooves	Pt/Ir; TiN coated; ring-shaped; two grooves
Steroid	Dexamethasone sodium phosphate	Dexamethasone sodium phosphate	Dexamethasone sodium phosphate	Dexamethasone sodium phosphate
Tip Electrode Surface Area	4.9 mm^2	4.9 mm^2	4.9 mm^2	4.9 mm^2
Ring Electrode Surface Area	7.4 mm^2	7.4 mm^2	7.4 mm^2	7.4 mm^2
Electrode Spacing				
Distal tip 1 - Mid 2	20 mm	20 mm	20 mm	20 mm
Distal tip 1 - Mid 3	30 mm	30 mm	30 mm	47 mm
Distal tip 1 - Proximal 4	47 mm	40 mm	47 mm	60 mm
Lead Body Insulation	Optim™ insulation	Optim™ insulation	Optim™ insulation	Optim™ insulation
Lead Body Coating	Fast-Pass™ coating	Fast-Pass™ coating	Fast-Pass™ coating	Fast-Pass™ coating
Conductors				
Distal (coil)	MP35N‡ LT	MP35N‡ LT	MP35N‡ LT	MP35N‡ LT
Proximal (cables)	ETFE; MP35N LT	ETFE; MP35N LT	ETFE; MP35N LT	ETFE; MP35N LT
Suture Sleeve	Attached	Attached	Attached	Attached
MRI Ready	Yes, 86 cm only	Yes, 86 cm only	Yes, 86 cm only	Yes, 86 cm only

1. Hayes, D., Freedman, R., Porterfield, J.G., Porterfield, L.M., Dinerman, J., Styperek, R.,Machell, C., Kim, G., Curtis A.B. (2015). Absence of externalized conductors and electricaldysfunction in Durata leads: results from a prospective, multicenter study [abstract]. Presented at Heart Rhythm 2015. Boston, Massachusetts.
2. Wilkoff, B. L., Rickard, J., Tkatchouk, E., Padsalgikar, A. D., Gallagher, G., & Runt, J. (2015).The biostability of cardiac lead insulation materials as assessed from long-term humanimplants. *Journal of Biomedical Materials Research Part B: Applied Biomaterials.,104(2)*, 411–421.

Rx Only

Brief Summary: Prior to using these devices, please review the Instructions for Use for a complete listing indications, contraindications, warnings, precautions, potential adverse events and directions for use.

™ Indicates a trademark of the Abbott group of companies.

‡ Indicates a third party trademark, which is property of its respective owner.

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