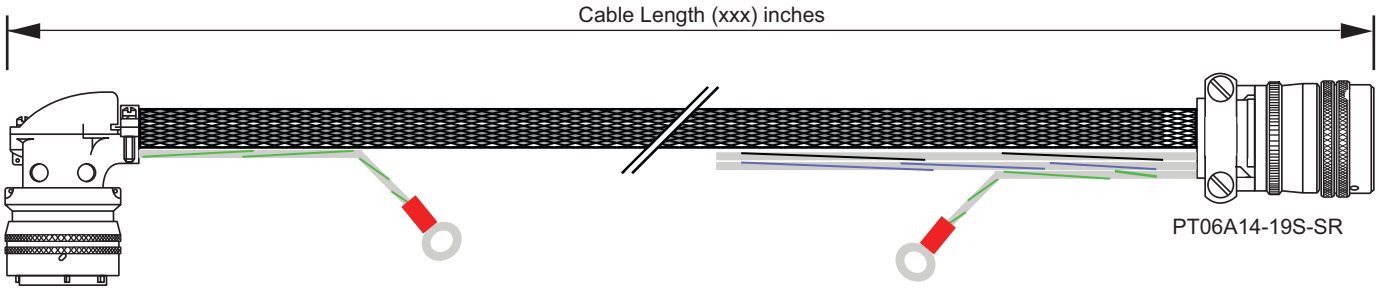

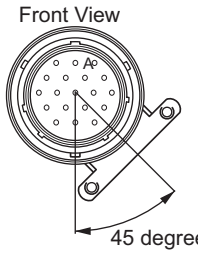

Notes	22AWG Indv Shld pairs	Motorola	Ritron	GE	Jem	Wabtec LCR
Conductor: 22 AWG fully annealed stranded tinned copper per ASTM B-33 Insulation: Premium-grade, color-coded polypropylene Shield: Individually shielded twisted pairs,100% Flexfoil® aluminum/polyester, 25% overlap, foil facing out, Stranded tinned copper drain wire Jacket: PVC, gray Temperature range: 20˚C to +80˚C Compliances: • NEC Article 800 Type CM (UL: 75˚C, 300V) • UL Style 2717 (UL: 80˚C) • UL Style 2835 (UL: 60˚C, 30V) • UL Style 2464 (UL: 80˚C, 300V) • CSA CMH (CSA: 60˚C) • CSA CMG (CSA: 60˚C) • RoHS Compliant Directive 2002/95/EC • Designed to meet CSA 70,000 BTU Vertical Tray Flame Test • Passes CSA CMH or CMG Flame Test	E A V J D — A/V pair Drain — E A V J D White/green-stripe Wires	audio grd mic audio filtered audio UNSW A+ not used	mic grd mic audio handset audio Vcc not used	shield/COM mic audio rec audio B+ not used	Gnd audio out mic panel Vcc not used	fr_audio_gnd mic (+) mic (-) fp_rxdi front_rear_sel
Conductor: 20 AWG fully annealed stranded tinned copper per ASTM B-33 Twisted pairs Insulation: Premium-grade, color-coded polyethylene Shield: Individually shielded pairs, 100% Flexfoil® aluminum/polyester with 25% overlap, foil facing in, Stranded tinned copper drain wire each pair Jacket: PVC, gray Temperature range: 20˚C to +80˚C Compliances: • NEC Article 800 Type CM (UL: 75°C) • UL Style 2919 (UL: 80˚C, 30V) • CSA CMH (CSA: 60˚C) • RoHS Compliant Directive 2002/95/EC • Designed to meet UL 70,000 BTU Vertical Tray Flame Test: Passes CSA CMH Flame Test	20AWG Indv Shld pairs M N K L P R — M N K L P R White/green-stripe Wires	Motorola logic gnd reset SW A+ audio PA gnd not used not used	Ritron speaker (+) speaker (-) not used gnd not used not used	GE common not used speaker (+) speaker (-) not used not used	Jem speaker (-) speaker (+) Vcc mic audio 3 not used not used	Wabtec LCR Vcc gnd fp_txdi upgrade sense speaker (+) speaker (-)
Conductor: 24 AWG fully annealed stranded tinned copper per ASTM B-33 Twisted pairs Insulation: Premium-grade, color-coded S-R PVC per UL 1061 Shield: 100% Flexfoil® aluminum/polyester with 25% overlap, foil facing out, Stranded tinned copper drain wire Jacket: PVC, gray Temperature range: 20˚C to +80˚C Compliances: • NEC Article 800 Type CMR (UL: 75°C) • UL Style 2464 (UL: 80˚C, 300V) • CSA CMG (CSA, 60°C) • RoHS Compliant Directive 2002/95/EC • Designed to meet UL 70,000 BTU Vertical Tray Flame Test: Passes CSA CMG Flame Test	24AWG CAT5E overall Shld White/green-stripe Wires F U S T B C G H — F U S T B C G H 18AWG White/black-stripe Wire 18 AWG White/blue-stripe Wire	Motorola AUX C/H det bus (+) bus (-) busy not used not used hang-up ret hang-up	Ritron not used handset grd RXD 232 TXD 232 not used not used not used not used	GE I/O RS485-A RS485-B I/O not used not used not used not used	Jem hook 1 PTT1 rxf 232 txf 232 not used not used not used not used	Wabtec LCR MOSI SCK tones hs_audio fp_rxdo fp_txdo vol_spi_sel aux_sel

Quality Check:

Continuity - All Cables, test results included w/each cable
Length - All Cables
Pin Placement - All Cables
Shrink Tube - All Cables

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Customer Approval

Approved by Date

Rev	Change	Date	By
-	Initial Release	01/23/15	DJD

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Dwg # RR-225RA/xxx

Description: Locomotive Radio to Remote Control Head Cable; PVC Jacket

Scale: None