



Lead Free 3-Lug TRB Bulkhead Insulated Jack with
Blunt Cut for 78 Ohm M17/176-00002, 12" Cable

RF Cable Assemblies Technical Data Sheet

PE3MSA00451-12

Configuration

- Connector 1: TRB Jack Bulkhead
- Connector 2: Blunt Cut Genderless
- Cable Type: M17/176-00002
- Coax Flex Type: Flexible

Features

- Max Frequency 10 MHz
- PFA Jacket
- MIL-STD-1553
- -55°C to +200°C
- 78 ohms

Applications

- General Purpose
- Laboratory Use
- Vehicle High Temperature
- Data
- MIL-STD-1553

Description

Pasternack's PE3MSA00451-12 78 ohm TRB jack bulkhead to 78 ohm Blunt cut genderless 12 inch cable using 78 ohm M17/176-00002 twinax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack TRB to Blunt Cut cable assembly has a jack to genderless gender configuration with 78 ohm flexible M17/176-00002 twinax. The PE3MSA00451-12 TRB jack to Blunt cut genderless cable assembly operates to 10 MHz. Our RF cable assembly with TRB bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	MHz
Capacitance		24 [78.74]		pF/ft [pF/m]
Operating Voltage (AC)			750,000	Vrms

Insertion Loss (Typ.)

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Lead Free 3-Lug TRB Bulkhead Insulated Jack with Blunt Cut for 78 Ohm M17/176-00002, 12" Cable PE3MSA00451-12](#)



Lead Free 3-Lug TRB Bulkhead Insulated Jack with
Blunt Cut for 78 Ohm M17/176-00002, 12" Cable

RF Cable Assemblies Technical Data Sheet

PE3MSA00451-12

Mechanical Specifications

Cable Assembly

Length*	12 in [304.8 mm]
Weight	0.068 lbs [30.84 g]

Cable

Cable Type	M17/176-00002
Impedance	78 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Shield Layer 1	Silver Plated Copper
Jacket Material	PFA, Blue

One Time Minimum Bend Radius	1.5 in [38.1 mm]
------------------------------	------------------

Connectors

Description	Connector 1	Connector 2
Type	TRB Jack Bulkhead Bayonet	Blunt Cut Genderless Other
Option	Insulated Bulk Head	
Impedance	78 Ohms	78 Ohms
Contact Material and Plating	Bronze, Gold 30 micro inches	
Contact Plating Specification	ASTM-B-488	
Dielectric Type	Teflon	
Outer Conductor Material and Plating	Phosphor Bronze, Gold	
Outer Conductor Plating Specification	30 micro inches	
Body Material and Plating	Brass, Nickel	
Body Plating Specification	ASTM-B-733	

Environmental Specifications

Temperature

Operating Range	-55 to +200 deg C
-----------------	-------------------

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Lead Free 3-Lug TRB Bulkhead Insulated Jack with Blunt Cut for 78 Ohm M17/176-00002, 12" Cable PE3MSA00451-12](#)



Lead Free 3-Lug TRB Bulkhead Insulated Jack with Blunt Cut for 78 Ohm M17/176-00002, 12" Cable

RF Cable Assemblies Technical Data Sheet

PE3MSA00451-12

How to Order

Part Number Configuration:

PE3MSA00451

- **xx**

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3MSA00451-12 = 12 inches long cable
PE3MSA00451-100cm = 100 cm long cable

Lead Free 3-Lug TRB Bulkhead Insulated Jack with Blunt Cut for 78 Ohm M17/176-00002, 12" Cable from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Lead Free 3-Lug TRB Bulkhead Insulated Jack with Blunt Cut for 78 Ohm M17/176-00002, 12" Cable PE3MSA00451-12](#)

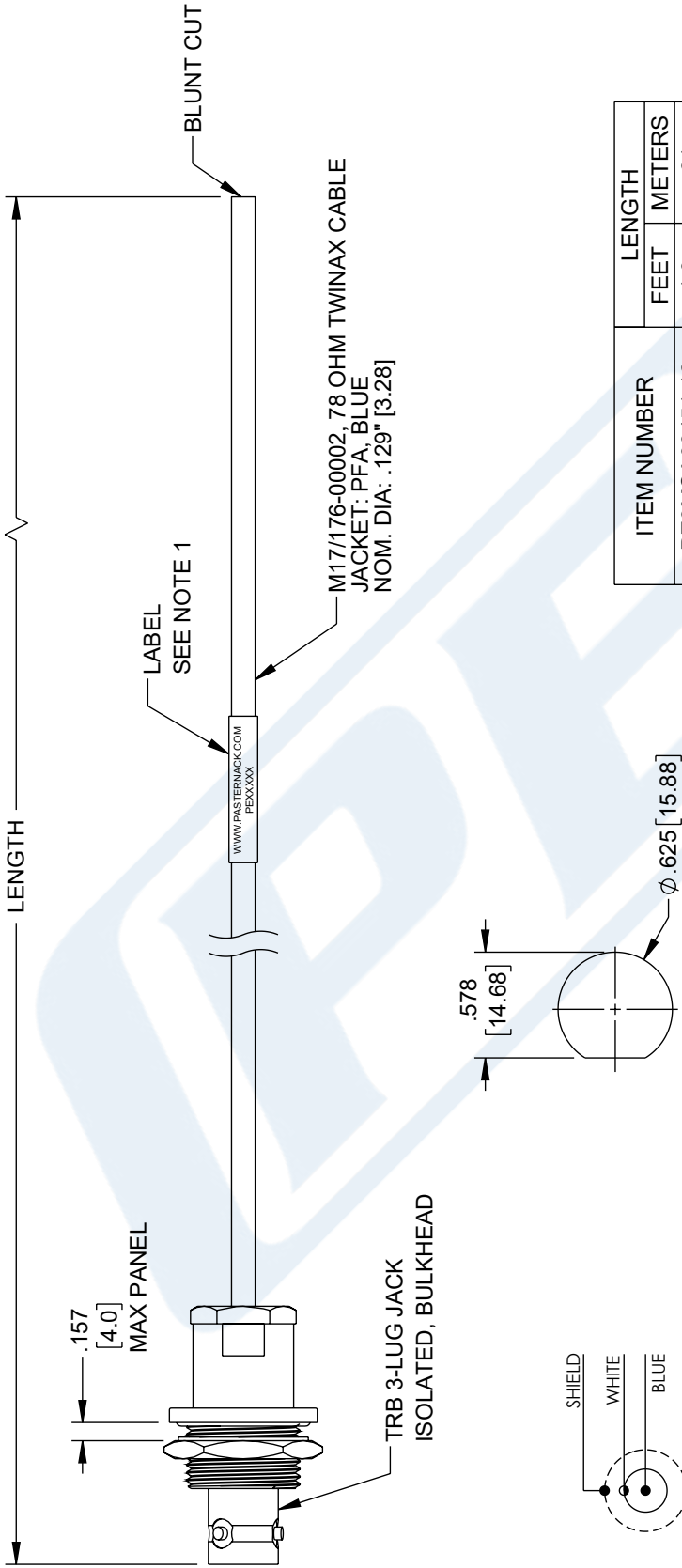
URL: <https://www.pasternack.com/trb-jack-bulkhead-to-blunt-cut-genderless-1553-cable-12-inch-length-using-m17-176-00002-pe3msa00451-12-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE3MSA00451-12 CAD Drawing

Lead Free 3-Lug TRB Bulkhead Insulated Jack with Blunt
Cut for 78 Ohm M17/176-00002, 12" Cable

LEAD FREE SOLDER



MAX PANEL

TRB 3-LUG JACK
ISOLATED, BULKHEAD

WIRING MAP

RECOMMENDED
PANEL CUTOUT

BLUNT CUT

LENGTH

PE3MSA00451-12

REV 1.0

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

303

304

305

306

307

308

309

310

311