



## Connectors & Cable Assemblies Incorporating HDMI™ Technology

### DESCRIPTION

Tyco Electronics' connector incorporating High-Definition Multimedia Interface (HDMI™) technology is an interface for consumer electronics products such as digital television, set-top boxes and DVD players. HDMI supports standard, enhanced, or high-definition video, plus multi-channel audio on a single cable.

### APPLICATIONS

- Digital or High-Definition TV's
- Set-top Boxes
- Video Game Consoles
- DVD Players
- Desktop PC's

### KEY FEATURES

- Simple User Friendly Connector
  - Replaces existing audio and digital cabling in one assembly
  - Easy-to-use friction lock design provides secure electrical contact and smooth cable insertion/extraction
- Full shielding for ESD protection and lead-free process available
- With or without panel flange
- 19 positions and 5 Gbps of bandwidth to support video and multi-channel audio in a single cable

### MECHANICAL

- Durability: 10,000 cycles
- Mating Force: 9.9 lbs. [44.1 N] Max.
- Unmating Force: 2.2 lbs. [9.8] Min. 8.8 lbs. [39.2] Max.

### TECHNICAL DOCUMENTS

- Meets Industry Standard High-Definition Multimedia Interface

## CONNECTORS

## Part Specifications

Product Number	PCB Mount Type	PCB Orientation	Number Of Ports	Packaging	(Dim A) Front Hold Down Legs	(Dim B) Back Hold Down Legs	Mounting Flange			(Dim E) PCB Profile Depth	Mating Finish
							Screw Size	(Dim C) CL of Mating Face to CL of Mounting Hole	(Dim D) Height (PCB- Top of Flange)		
1747981-1	SMT	R/A	1	Tape & Reel	1.8	2.2	-	-	-	11.55	A
1747981-2	SMT	R/A	1	Tape & Reel	1.5	1.5	-	-	-	11.55	A
1-1747981-1	SMT	R/A	1	Tray	1.8	2.2	M3 x 0.5	7.98	14.25	11.55	A
1-1747981-2	SMT	R/A	1	Tray	1.5	1.5	M3 x 0.5	7.98	14.25	11.55	A
1-1747981-3	SMT	R/A	1	Tray	1.8	2.2	4-40	10.08	16.05	11.55	A
1-1747981-4	SMT	R/A	1	Tray	1.8	2.2	M3 x 0.5	10.08	16.05	11.55	A
1-1747981-5	SMT	R/A	1	Tape & Reel	1.5	1.5	M3 x 0.5	7.98	14.25	11.55	A
2-1747981-3	SMT	R/A	1	Tape & Reel	1.8	2.2	M3 x 0.5	10.08	16.05	11.55	C
8-1747981-1	SMT	R/A	1	Tray	1.8	2.2	M3 x 0.5	7.98	14.25	11.55	A
1746679-1	T/H	R/A	1	Tray	1.8	2.2	M3 x 0.5	9.00	15.27	12.9	B
1903015-1	SMT	R/A	1	Tape & Reel	1.9	1.9	-	-	-	9.85	C
1903015-2	SMT	R/A	1	Tray	1.9	1.9	Ø2.65	9.00	15.40	9.85	C
1903015-3	SMT	R/A	1	Tape & Reel	1.9	1.9	M3 x 0.5	9.00	15.40	9.85	C
1903015-4	SMT	R/A	1	Tray	1.9	1.9	M3 x 0.5	9.00	15.40	9.85	C
5-1903015-1	SMT	R/A	1	Tape & Reel	1.9	1.9	-	-	-	9.85	B
5-1903015-2	SMT	R/A	1	Tray	1.9	1.9	Ø2.65	9.00	15.40	9.85	B
5-1903015-4	SMT	R/A	1	Tray	1.9	1.9	M3 x 0.5	9.00	15.40	9.85	B
1888811-1	T/H	R/A	2	Tray	2.1	2.1	M3 x 0.5	10.08	28.00	20.55	D
1888540-1	T/H	R/A	1*	Tray	1.8	2.2	M3 x 0.5	10.08	27.05	20.55	D
2007435-1	T/H	Flag	1	Tray	3.7	3.7	-	-	-	23.10	D

CL= Center Line

All dimensions in mm unless otherwise stated

Mating Finish - Gold or Gold Flash over Palladium Nickel

Mating Finish - **A** = Gold Flash over Palladium Nickel - **B** = 12µ Gold - **C** = 30µ Gold - **D** = Either A or B

\*HDMI over E-SATA

**Note:** Part Numbers are RoHS Compliant.

**PCB HEADER CONNECTORS - Product Dimensions & Part Numbers**

Right Angle Surface Mount Header, No Flange (Long Body)

**Part Numbers:**

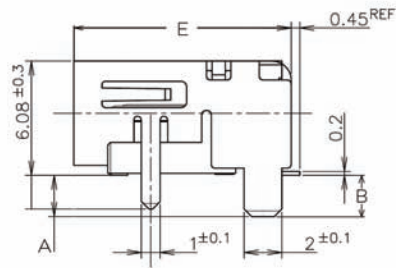
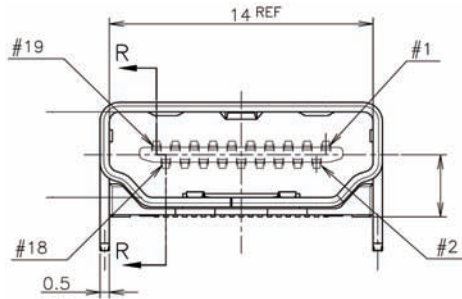
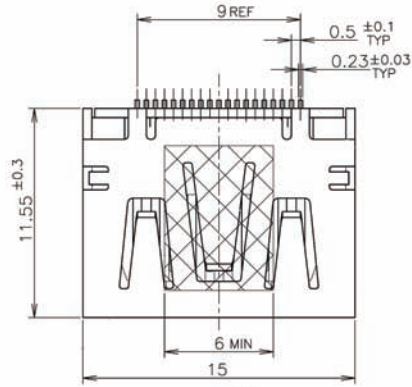
1747981-1  
1747981-2

**Product Specification:**

108-78180-1

**Qualification Test Report:**

501-5640



Right Angle Surface Mount Header with Flange (Long Body)

**Part Numbers:**

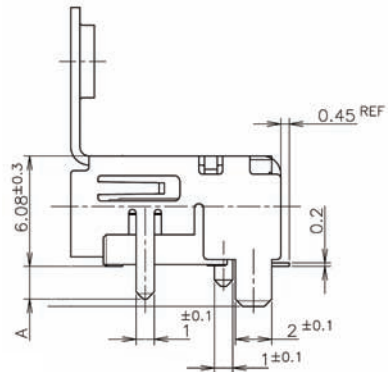
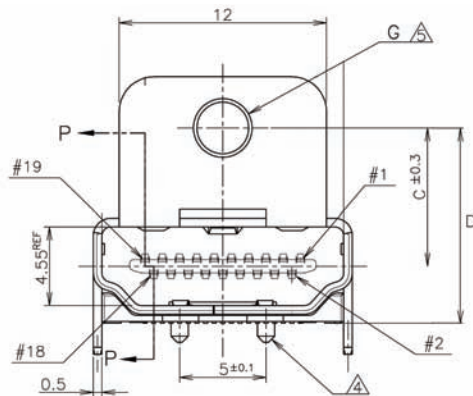
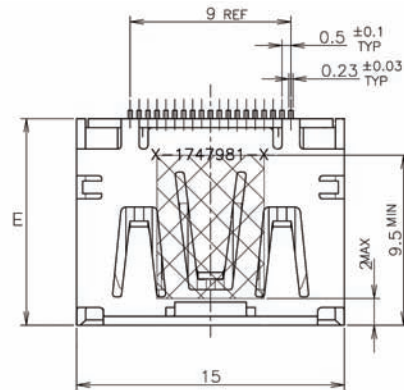
1-1747981-1  
1-1747981-2  
1-1747981-3  
1-1747981-4  
1-1747981-5  
2-1747981-3  
8-1747981-1

**Product Specification:**

108-78180-1

**Qualification Test Report:**

501-5640  
501-5640-1



**Note:** Part Numbers are RoHS Compliant.

HDMI is a trademark of HDMI Licensing L.L.C.

PCB HEADER CONNECTORS - Product Dimensions & Part Numbers

Right Angle Surface Mount Header, No Flange (Short Body)

Part Numbers:

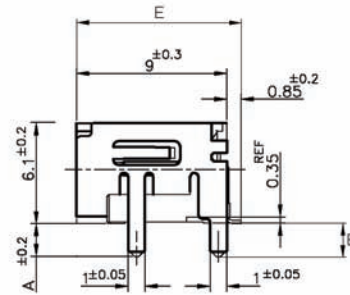
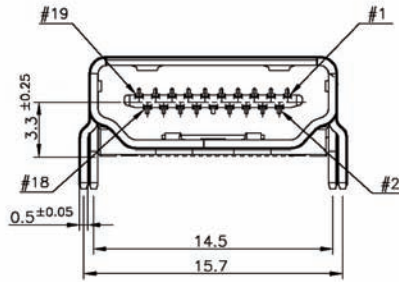
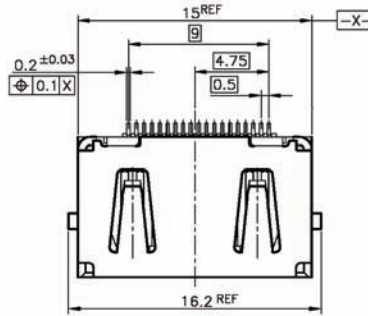
1903015-1  
5-1903015-1

Product Specification:

108-78180-2

Qualification Test Report:

501-5640-2



Right Angle Surface Mount Header with Flange (Short Body)

Part Numbers:

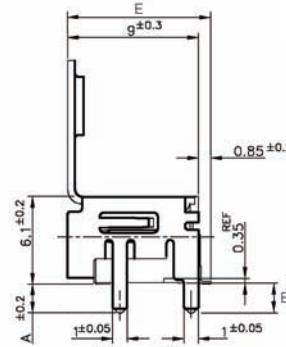
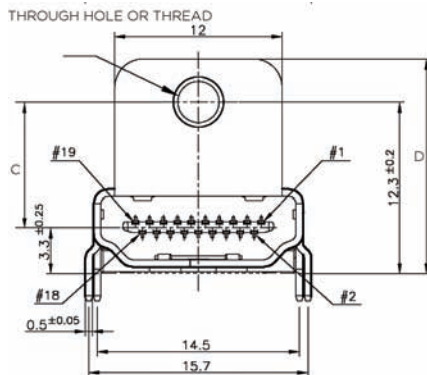
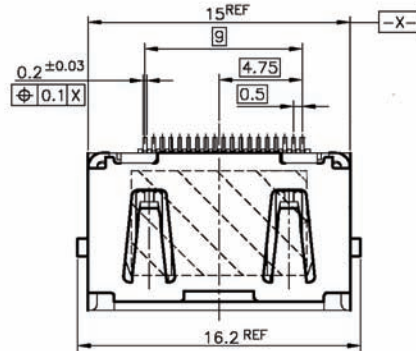
1903015-2  
1903015-3  
1903015-4  
5-1903015-2  
5-1903015-4

Product Specification:

108-78180-2

Qualification Test Report:

501-5640  
501-5640-2  
501-5841-2



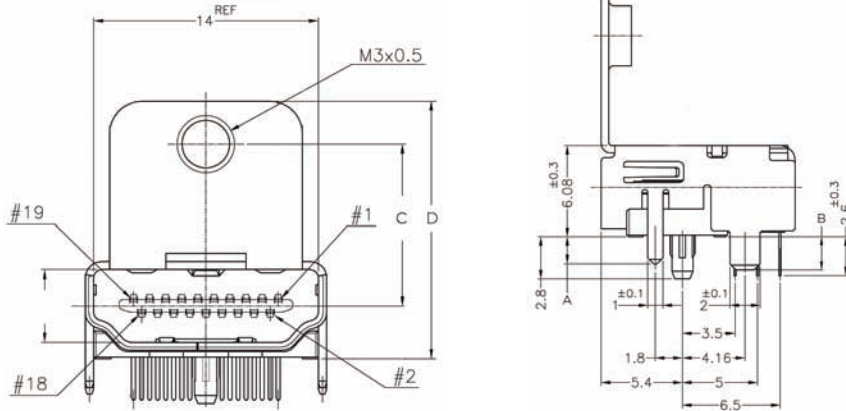
PCB HEADER CONNECTORS - Product Dimensions & Part Numbers

Right Angle Through Hole Header with Flange

**Part Numbers:**  
1746679-1

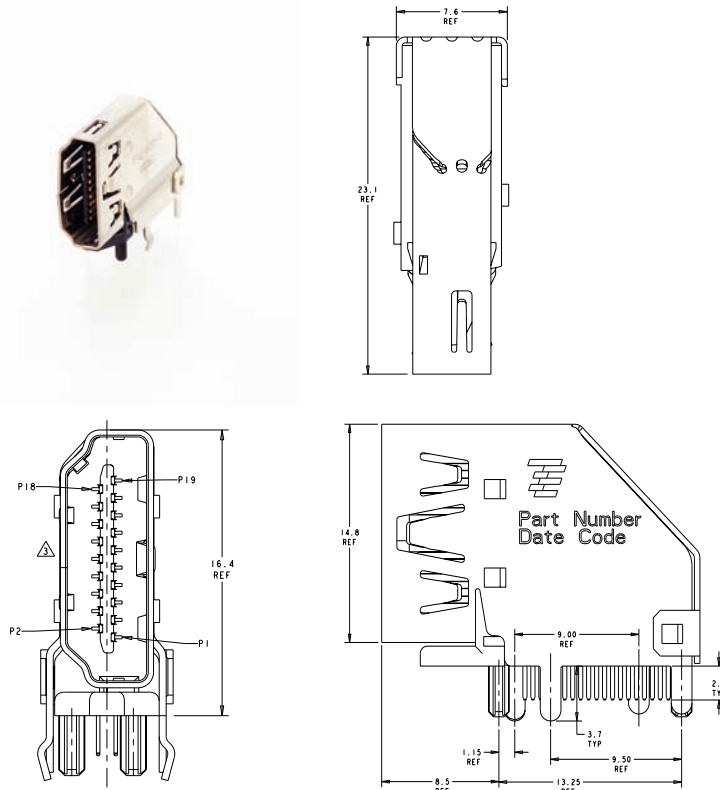
**Product Specification:**  
108-78180

**Qualification Test Report:**  
501-5640



Flag Through Hole Header

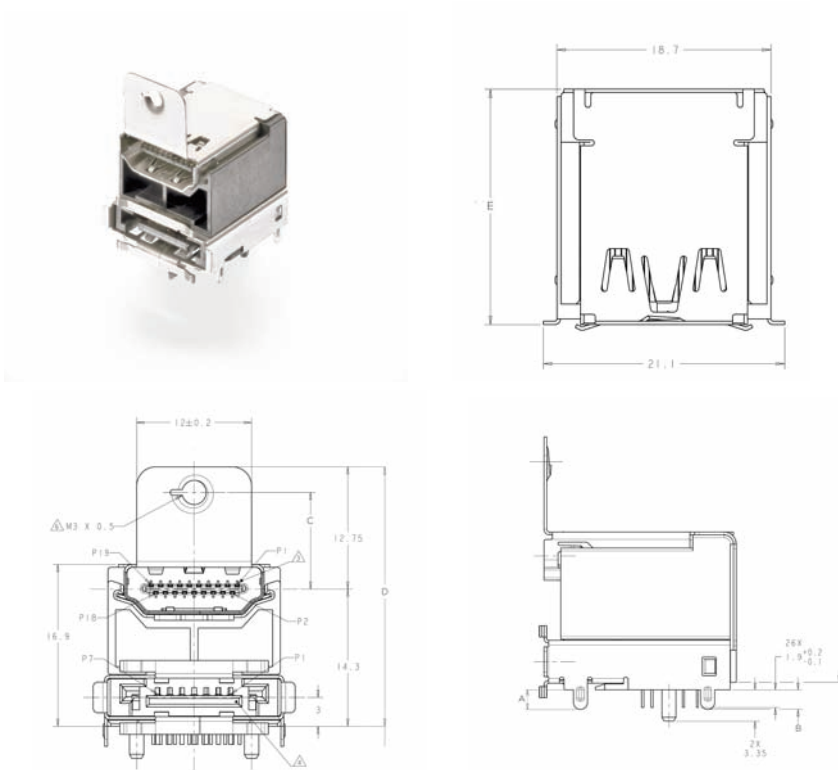
**Part Numbers:**  
2007435-1



Stacked Right Angle Through Hole Header

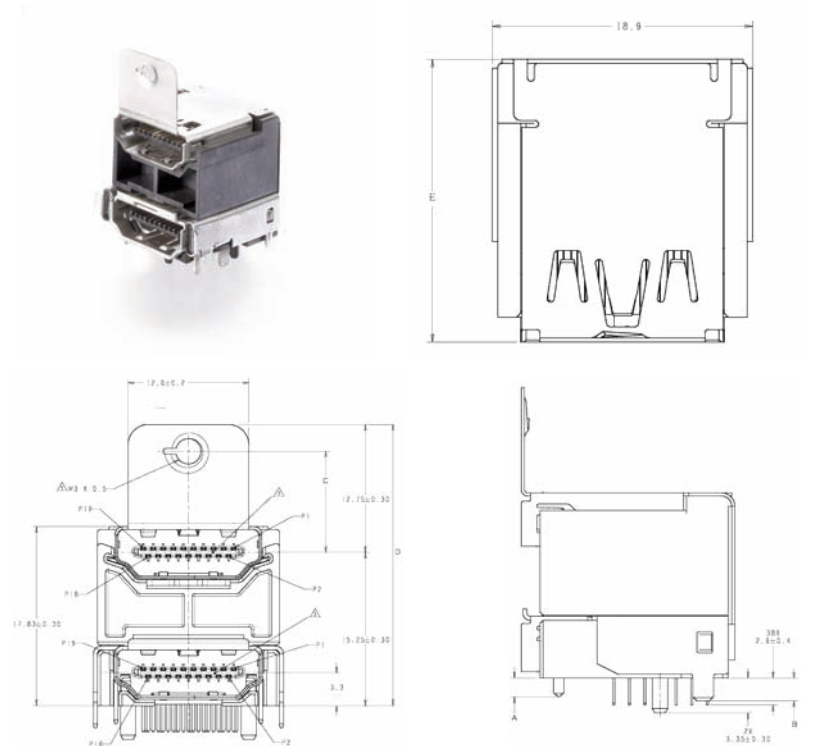
**Part Number:**  
1888540-1

**Qualification Test Report:**  
501-662



Stacked Right Angle Through Hole Incorporating HDMI Technology over eSATA Technology

**Part Number:**  
1888811-1



**Note:** Part Numbers are RoHS Compliant.

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eSATA is a trademark of Wiebe Tech L.L.C.

# Connectors & Cable Assemblies Incorporating HDMI Technology

## ELECTRICAL

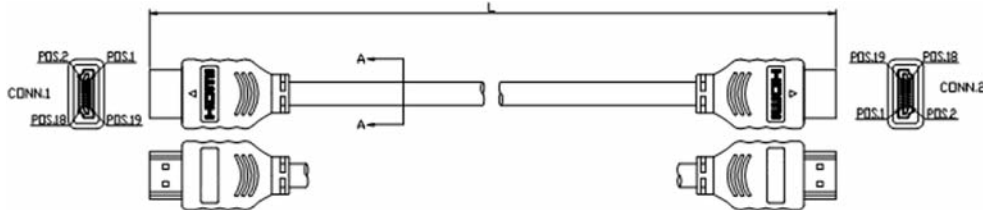
- Voltage Rating: 40 VAC maximum
- Contact Current Rating: 0.5 A minimum
- Dry Circuit Resistance -  
 Contacts: 30 mΩ maximum initial  
 Shell: 50mΩ maximum initial
- Dielectric Withstanding Voltage -  
 Unmated: 500 VAC  
 Mated: 300 VAC
- Insulation Resistance -  
 Unmated: 100 mΩ maximum  
 Mated: 10 mΩ minimum

## ENVIRONMENTAL

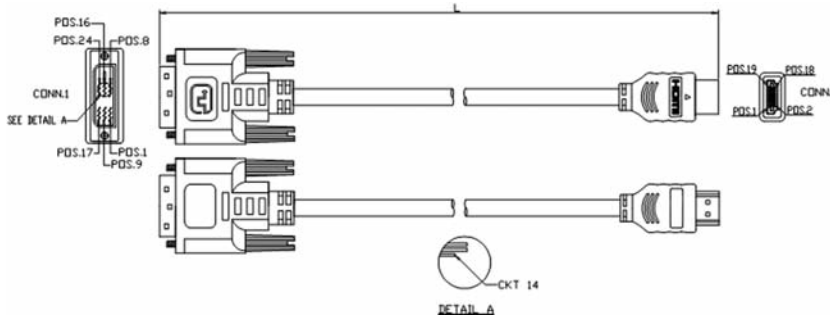
Temperature Range: -55°C to + 105

## CABLE ASSEMBLY PART NUMBERS

### Cable Assemblies Incorporating HDMI Technology to Cable Assemblies Incorporating HDMI Technology



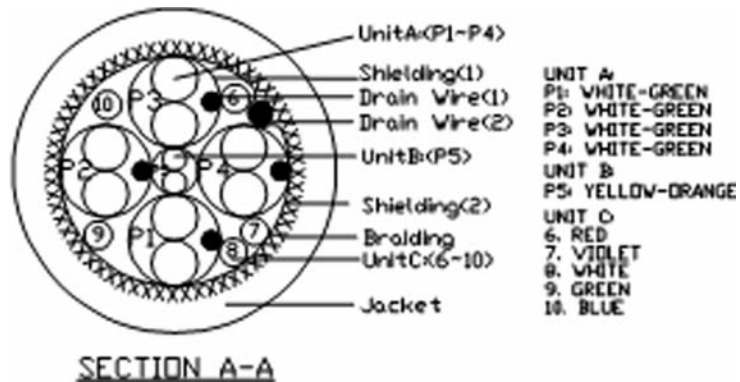
Dimension L	Part Number
1000 -20	1770019-6
750 -10	1770019-5
500 -10	1770019-4
250 -10	1770019-3
3000 -30	1770019-2
2000 -20	1770019-1



Dimension L	Part Number
1000 -20	1770020-6
750 -10	1770020-5
500 -10	1770020-4
250 -10	1770020-3
3000 -30	1770020-2
2000 -20	1770020-1

SHIELD	BRAID	SHELL	SHELL	SHELL	
C	BLUE	19	YES	19	YES
B	ORANGE	18	YES	18	YES
	YELLOW	17		17	
C	GREEN	16		16	
C	WHITE	15	YES	15	YES
C	VIOLET	14	YES	14	YES
C	RED	13		13	
	WHITE	12		12	
A	DRAIN WIRE	11	YES	11	YES
	GREEN	10	YES	10	YES
	WHITE	9		9	
A	DRAIN WIRE	8		8	
	GREEN	7	YES	7	YES
	WHITE	6	YES	6	YES
A	DRAIN WIRE	5		5	
	GREEN	4		4	
A	WHITE	3	YES	3	YES
A	DRAIN WIRE	2	YES	2	YES
	GREEN	1		1	
UNIT	WIRE COLOR	PIN	HST		HST
CABLE		CONN.1			CONN.2

CONNECTION TABLE



Note: Part Numbers are RoHS Compliant.

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## FOR MORE INFORMATION

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### Technical Support

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<http://www.hdmi.org>

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UK: 44-141-810-8967

Japan: 81-44-844-8013

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The Support Center also provides:

- Cross-Reference from Non-compliant to Compliant Products
- Ability to browse RoHS Compliant Products in our on-line catalog
- Downloadable Technical Data Customer Information Presentation
- More detailed information regarding the definitions used above
- So whatever your questions when it comes to RoHS, we've got the answers at [www.tycoelectronics.com/leadfree](http://www.tycoelectronics.com/leadfree)



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<http://moschip.ru/get-element>

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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