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# Materials Declaration

Part Name: Dual Port Connector  
 Part Number: 189-009-513R451  
 Part Weight (kg): 0.01990

Environment Friendly Use Period: 10+ Years

RoHS TEST REPORT												
	Lead Pb		Mercury Hg		Cadmium Cd		Hexavalent Chromium Cr6		Polybrominated Biphenyls PBBs		Polybrominated Diphenyl ethers PBEs	
% Allowed	≤ 0.10		≤ 0.10		≤ 0.01		≤ 0.10		≤ 0.10		≤ 0.10	
Sub-Part Name	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%
Female Insulator	N.D.		N.D.		N.D.		N.D.		N.D.		N.D.	
Female Pin Guide	N.D.		N.D.		N.D.		N.D.		N.D.		N.D.	
Female Shell	N.D.		N.D.		N.D.		N.D.		N.D.		N.D.	
Female Pins	N.D.		N.D.		N.D.		N.D.		N.D.		N.D.	
Pin Insulator	N.D.		N.D.		N.D.		N.D.		N.D.		N.D.	
Bracket	11.6	0.00	N.D.		N.D.		N.D.		N.D.		N.D.	
<b>Exemptions:</b>	<b>6C</b>											

Sub-Part Name: Female Insulator  
 Sub-Part Weight (kg): 0.006

Base Material: PA9T - UL-V0 - black

REACH TEST REPORT				
SVHC	CAS number	EC number	D.L.	Test Results
Anthracene	120-12-7	204-371-1	0.0005	N.D.
Benzyl butyl phthalate	85-68-7	201-622-7	0.005	N.D.
Dibutyl phthalate	84-74-2	201-557-4	0.005	N.D.
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	0.005	N.D.
HBCDD	25637-99 & 3194-55-6	247-148-4	0.005	N.D.
4,4' Diaminodiphenylmethane	101-77-9	202-974-4	0.005	N.D.
Short Chain Chlorinated Paraffins	85535-84-8	287-476-5	0.01	N.D.
musk xylene	81-15-2	201-329-4	0.005	N.D.
Triethyl arsenate	15606-95-8	427-700-2	0.005	N.D.
Bis(tributyltin)oxide	56.35-9	200-268-0	0.01	N.D.
Cobalt dichloride	7646-79-9	231-589-4	0.01	N.D.
Diarsenic pentaoxide	1303-28-2	215-116-9	0.01	N.D.
Diarsenic trioxide	1327-53-3	215-481-4	0.01	N.D.
Sodium dichromate	7789-12-0, 10588-01-9	234-190-3	0.01	N.D.
Lead hydrogen arsenate	7784-40-9	232-064-2	0.01	N.D.
2,4-Dinitrotoluene	121-14-2	204-450-0	0.005	N.D.
Anthracene oil	90640-80-5	292-602-7		N.D.
Anthracene oil, anthracene paste,	91995-17-4	295-278-5		

Anthracene oil, anthracene paste,	91995-15-2	295-275-9	0.05	N.D.
Anthracene oil, anthracene-low	90640-82-7	292-604-8		
Anthracene oil, anthracene paste	90640-81-6	292-603-2		
Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	0.005	N.D.
Aluminosilicate, Refractory Ceramic		Index No. 650-	0.01	N.D.
Zirconia Aluminosilicate, Refractory		Index No. 650-	0.01	N.D.
Lead Chromate	7758-97-6	231-846-0	0.005	N.D.
Lead Chromate molybdate sulfate	12656-85-8	235-759-9	0.005	N.D.
Lead sulfochromate yellow (C.I.)	1344-37-2	215-693-7	0.005	N.D.
Acrylamide	79-06-1	201-173-7	0.005	N.D.
Tris (2-chloroethyl) phosphate	115-96-8	201-118-5	0.005	N.D.
Coal tar pitch, high temperature	65996-93-2	266-028-2	0.050	N.D.

Sub-Part Name: Female Pin Guide  
Sub-Part Weight (kg): 0.00100

Base Material: PA9T - UL-V0 - black

REACH TEST REPORT				
SVHC	CAS number	EC number	D.L.	Test Results
Anthracene	120-12-7	204-371-1	0.0005	N.D.
Benzyl butyl phthalate	85-68-7	201-622-7	0.005	N.D.
Dibutyl phthalate	84-74-2	201-557-4	0.005	N.D.
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	0.005	N.D.
HBCDD	25637-99 & 3194-55-6	247-148-4	0.005	N.D.
4,4' Diaminodiphenylmethane	101-77-9	202-974-4	0.005	N.D.
Short Chain Chlorinated Paraffins	85535-84-8	287-476-5	0.01	N.D.
musk xylene	81-15-2	201-329-4	0.005	N.D.
Triethyl arsenate	15606-95-8	427-700-2	0.005	N.D.
Bis(tributyltin)oxide	56.35-9	200-268-0	0.01	N.D.
Cobalt dichloride	7646-79-9	231-589-4	0.01	N.D.
Diarsenic pentaoxide	1303-28-2	215-116-9	0.01	N.D.
Diarsenic trioxide	1327-53-3	215-481-4	0.01	N.D.
Sodium dichromate	7789-12-0, 10588-01-9	234-190-3	0.01	N.D.
Lead hydrogen arsenate	7784-40-9	232-064-2	0.01	N.D.
2,4-Dinitrotoluene	121-14-2	204-450-0	0.005	N.D.
Anthracene oil	90640-80-5	292-602-7		N.D.
Anthracene oil, anthracene paste,	91995-17-4	295-278-5	0.05	N.D.
Anthracene oil, anthracene paste,	91995-15-2	295-275-9		
Anthracene oil, anthracene-low	90640-82-7	292-604-8		
Anthracene oil, anthracene paste	90640-81-6	292-603-2		
Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	0.005	N.D.
Aluminosilicate, Refractory Ceramic		Index No. 650-	0.01	N.D.
Zirconia Aluminosilicate, Refractory		Index No. 650-	0.01	N.D.
Lead Chromate	7758-97-6	231-846-0	0.005	N.D.
Lead Chromate molybdate sulfate	12656-85-8	235-759-9	0.005	N.D.
Lead sulfochromate yellow (C.I.)	1344-37-2	215-693-7	0.005	N.D.
Acrylamide	79-06-1	201-173-7	0.005	N.D.
Tris (2-chloroethyl) phosphate	115-96-8	201-118-5	0.005	N.D.
Coal tar pitch, high temperature	65996-93-2	266-028-2	0.050	N.D.

Sub-Part Name: Female Shell  
Sub-Part Weight (kg): 0.001600

Base Material: Steel  
Plating: Nickel

REACH TEST REPORT				
SVHC	CAS number	EC number	D.L.	Test Results
Anthracene	120-12-7	204-371-1	0.0005	N.D.
Benzyl butyl phthalate	85-68-7	201-622-7	0.005	N.D.

Dibutyl phthalate	84-74-2	201-557-4	0.005	N.D.
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	0.005	N.D.
HBCDD	25637-99 & 3194-55-6	247-148-4	0.005	N.D.
4,4' Diaminodiphenylmethane	101-77-9	202-974-4	0.005	N.D.
Short Chain Chlorinated Paraffins	85535-84-8	287-476-5	0.01	N.D.
musk xylene	81-15-2	201-329-4	0.005	N.D.
Triethyl arsenate	15606-95-8	427-700-2	0.005	N.D.
Bis(tributyltin)oxide	56.35-9	200-268-0	0.01	N.D.
Cobalt dichloride	7646-79-9	231-589-4	0.01	N.D.
Diarsenic pentaoxide	1303-28-2	215-116-9	0.01	N.D.
Diarsenic trioxide	1327-53-3	215-481-4	0.01	N.D.
Sodium dichromate	7789-12-0, 10588-01-9	234-190-3	0.01	N.D.
Lead hydrogen arsenate	7784-40-9	232-064-2	0.01	N.D.
2,4-Dinitrotoluene	121-14-2	204-450-0	0.005	N.D.
Anthracene oil	90640-80-5	292-602-7		N.D.
Anthracene oil, anthracene paste,	91995-17-4	295-278-5	0.05	N.D.
Anthracene oil, anthracene paste,	91995-15-2	295-275-9		
Anthracene oil, anthracene-low	90640-82-7	292-604-8		
Anthracene oil, anthracene paste	90640-81-6	292-603-2		
Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	0.005	N.D.
Aluminosilicate, Refractory Ceramic		Index No. 650-	0.01	N.D.
Zirconia Aluminosilicate, Refractory		Index No. 650-	0.01	N.D.
Lead Chromate	7758-97-6	231-846-0	0.005	N.D.
Lead Chromate molybdate sulfate	12656-85-8	235-759-9	0.005	N.D.
Lead sulfochromate yellow (C.I.)	1344-37-2	215-693-7	0.005	N.D.
Acrylamide	79-06-1	201-173-7	0.005	N.D.
Tris (2-chloroethyl) phosphate	115-96-8	201-118-5	0.005	N.D.
Coal tar pitch, high temperature	65996-93-2	266-028-2	0.050	N.D.

Sub-Part Name: Female Pins  
Sub-Part Weight (kg): 0.003000

Base Material: Brass - C2680  
Plating: Gold

REACH TEST REPORT				
SVHC	CAS number	EC number	D.L.	Test Results
Anthracene	120-12-7	204-371-1	0.0005	N.D.
Benzyl butyl phthalate	85-68-7	201-622-7	0.005	N.D.
Dibutyl phthalate	84-74-2	201-557-4	0.005	N.D.
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	0.005	N.D.
HBCDD	25637-99 & 3194-55-6	247-148-4	0.005	N.D.
4,4' Diaminodiphenylmethane	101-77-9	202-974-4	0.005	N.D.
Short Chain Chlorinated Paraffins	85535-84-8	287-476-5	0.01	N.D.
musk xylene	81-15-2	201-329-4	0.005	N.D.
Triethyl arsenate	15606-95-8	427-700-2	0.005	N.D.
Bis(tributyltin)oxide	56.35-9	200-268-0	0.01	N.D.
Cobalt dichloride	7646-79-9	231-589-4	0.01	N.D.
Diarsenic pentaoxide	1303-28-2	215-116-9	0.01	N.D.
Diarsenic trioxide	1327-53-3	215-481-4	0.01	N.D.
Sodium dichromate	7789-12-0, 10588-01-9	234-190-3	0.01	N.D.
Lead hydrogen arsenate	7784-40-9	232-064-2	0.01	N.D.
2,4-Dinitrotoluene	121-14-2	204-450-0	0.005	N.D.
Anthracene oil	90640-80-5	292-602-7		N.D.
Anthracene oil, anthracene paste,	91995-17-4	295-278-5	0.05	N.D.
Anthracene oil, anthracene paste,	91995-15-2	295-275-9		
Anthracene oil, anthracene-low	90640-82-7	292-604-8		
Anthracene oil, anthracene paste	90640-81-6	292-603-2		
Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	0.005	N.D.
Aluminosilicate, Refractory Ceramic		Index No. 650-	0.01	N.D.

Zirconia Aluminosilicate, Refractory		Index No. 650-	0.01	N.D.
Lead Chromate	7758-97-6	231-846-0	0.005	N.D.
Lead Chromate molybdate sulfate	12656-85-8	235-759-9	0.005	N.D.
Lead sulfochromate yellow (C.I.)	1344-37-2	215-693-7	0.005	N.D.
Acrylamide	79-06-1	201-173-7	0.005	N.D.
Tris (2-chloroethyl) phosphate	115-96-8	201-118-5	0.005	N.D.
Coal tar pitch, high temperature	65996-93-2	266-028-2	0.050	N.D.

Sub-Part Name: Pin Insulator  
Sub-Part Weight (kg): 0.002300

Base Material: PA9T -UL94-V0 - black

REACH TEST REPORT				
SVHC	CAS number	EC number	D.L.	Test Results
Anthracene	120-12-7	204-371-1	0.0005	N.D.
Benzyl butyl phthalate	85-68-7	201-622-7	0.005	N.D.
Dibutyl phthalate	84-74-2	201-557-4	0.005	N.D.
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	0.005	N.D.
HBCDD	25637-99 & 3194-55-6	247-148-4	0.005	N.D.
4,4' Diaminodiphenylmethane	101-77-9	202-974-4	0.005	N.D.
Short Chain Chlorinated Paraffins	85535-84-8	287-476-5	0.01	N.D.
musk xylene	81-15-2	201-329-4	0.005	N.D.
Triethyl arsenate	15606-95-8	427-700-2	0.005	N.D.
Bis(tributyltin)oxide	56.35-9	200-268-0	0.01	N.D.
Cobalt dichloride	7646-79-9	231-589-4	0.01	N.D.
Diarsenic pentaoxide	1303-28-2	215-116-9	0.01	N.D.
Diarsenic trioxide	1327-53-3	215-481-4	0.01	N.D.
Sodium dichromate	7789-12-0, 10588-01-9	234-190-3	0.01	N.D.
Lead hydrogen arsenate	7784-40-9	232-064-2	0.01	N.D.
2,4-Dinitrotoluene	121-14-2	204-450-0	0.005	N.D.
Anthracene oil	90640-80-5	292-602-7		N.D.
Anthracene oil, anthracene paste,	91995-17-4	295-278-5	0.05	N.D.
Anthracene oil, anthracene paste,	91995-15-2	295-275-9		
Anthracene oil, anthracene-low	90640-82-7	292-604-8		
Anthracene oil, anthracene paste	90640-81-6	292-603-2		
Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	0.005	N.D.
Aluminosilicate, Refractory Ceramic		Index No. 650-	0.01	N.D.
Zirconia Aluminosilicate, Refractory		Index No. 650-	0.01	N.D.
Lead Chromate	7758-97-6	231-846-0	0.005	N.D.
Lead Chromate molybdate sulfate	12656-85-8	235-759-9	0.005	N.D.
Lead sulfochromate yellow (C.I.)	1344-37-2	215-693-7	0.005	N.D.
Acrylamide	79-06-1	201-173-7	0.005	N.D.
Tris (2-chloroethyl) phosphate	115-96-8	201-118-5	0.005	N.D.
Coal tar pitch, high temperature	65996-93-2	266-028-2	0.050	N.D.

Sub-Part Name: Bracket  
Sub-Part Weight (kg): 0.006000

Base Material: Zinc Alloy

REACH TEST REPORT				
SVHC	CAS number	EC number	D.L.	Test Results
Anthracene	120-12-7	204-371-1	0.0005	N.D.
Benzyl butyl phthalate	85-68-7	201-622-7	0.005	N.D.
Dibutyl phthalate	84-74-2	201-557-4	0.005	N.D.

Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	0.005	N.D.
HBCDD	25637-99 & 3194-55-6	247-148-4	0.005	N.D.
4,4' Diaminodiphenylmethane	101-77-9	202-974-4	0.005	N.D.
Short Chain Chlorinated Paraffins	85535-84-8	287-476-5	0.01	N.D.
musk xylene	81-15-2	201-329-4	0.005	N.D.
Triethyl arsenate	15606-95-8	427-700-2	0.005	N.D.
Bis(tributyltin)oxide	56.35-9	200-268-0	0.01	N.D.
Cobalt dichloride	7646-79-9	231-589-4	0.01	N.D.
Diarsenic pentoxide	1303-28-2	215-116-9	0.01	N.D.
Diarsenic trioxide	1327-53-3	215-481-4	0.01	N.D.
Sodium dichromate	7789-12-0, 10588-01-9	234-190-3	0.01	N.D.
Lead hydrogen arsenate	7784-40-9	232-064-2	0.01	N.D.
2,4-Dinitrotoluene	121-14-2	204-450-0	0.005	N.D.
Anthracene oil	90640-80-5	292-602-7		N.D.
Anthracene oil, anthracene paste,	91995-17-4	295-278-5	0.05	N.D.
Anthracene oil, anthracene paste,	91995-15-2	295-275-9		
Anthracene oil, anthracene-low	90640-82-7	292-604-8		
Anthracene oil, anthracene paste	90640-81-6	292-603-2		
Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	0.005	N.D.
Aluminosilicate, Refractory Ceramic		Index No. 650-	0.01	N.D.
Zirconia Aluminosilicate, Refractory		Index No. 650-	0.01	N.D.
Lead Chromate	7758-97-6	231-846-0	0.005	N.D.
Lead Chromate molybdate sulfate	12656-85-8	235-759-9	0.005	N.D.
Lead sulfochromate yellow (C.I.)	1344-37-2	215-693-7	0.005	N.D.
Acrylamide	79-06-1	201-173-7	0.005	N.D.
Tris (2-chloroethyl) phosphate	115-96-8	201-118-5	0.005	N.D.
Coal tar pitch, high temperature	65996-93-2	266-028-2	0.050	N.D.

- 1) The chemical analysis of 15 Substance of Very High Concern (SVHC) is performed by means of current available analytical techniques against the list published by ECHA on October 28, and shall refer to <http://echa.europa.eu/chem.data/candidate.list.table.en.asp>. This list is under evaluation by ECHA and subject to change.
- 2) In accordance with EC regulation No. 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of article 7, if a substance meets the criteria in article 57 and is identified in accordance with article 59(1) of the regulation, if (a) the substance is present in those articles in quantities totaling over one ton per producer or importer per year; d (b) the substance is present in those article above a concentration of 0.1% weight by weight (w/w).
- 3) Article 33 of EC regulation No. 1907/2006 requires suppliers of an article containing a substance meeting the criteria in article 57 and identified in accordance with article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including as a minimum, the name of the substance.

Notes:

mg/kg = ppm; 0.1wt% = 1,000ppm  
N.D. = Not Detected; DL = Detection Limit  
SVHC = Substance of Very High Concern

U.S. references:

EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996, EPA 3540C:1996, EPA 8270D:2007, DIN 38407-13, EN 14362-1%2:2003, EN 14372:2004, EPA 9056A:2007, EPA 3060A:1996 method. Analysis is performed by IC, UV, ICP-OES and GC-MS.