**3**M Science. Applied to Life.™

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3M<sup>™</sup> CoaXPress Industrial Camera Cable Assembly, 1CX Series

Exploring the fast, flexible future of machine vision





The CoaXPress (CXP) interface is expected to become the mainstream interface for highspeed and high-bandwidth camera systems. Allowing video, camera control and real-time triggering over a single coaxial cable, CXP can accommodate a range of needs in machine vision – long transmission distances, high resolution, durability for repetitive-motion applications and more.

With the recent release of CoaXPress 2.0, CXP can deliver transmission speed up a maximum of 12.5 Gbps/channel.

#### Two CXP assemblies. Countless possibilities.

With the 3M<sup>™</sup> CoaXPress Industrial Camera Cable Assembly, 1CX Series, 3M offers two types of CoaXPress-compatible cable assemblies that comply with CoaXPress 2.0. These versatile assemblies allow for performance in a wide range of fixed and motion applications in machine vision, from general motion systems to high-performance applications requiring long transmission distance and very high bending durability.

# The 3M<sup>™</sup> CoaXPress Industrial Camera Cable Assembly, 1CX Series features:

- High-speed data transfer up to 12.5 Gbps/channel (CXP-12, Micro-BNC, BNC connector specification)
- Available DIN 1.0/2.3 connector specification (CXP-6, up to 6.25 Gbps)
- CoaXPress 2.0 compliant
- Compliant with CE marking



# **Key features:**

#### Longer transmission distance.

The 3M<sup>™</sup> CoaXPress Industrial Camera Cable Assembly, 1CX Series delivers transmission distance from 8 meters to 13 meters depending on specific cable and equipment.

### Dynamic bending durability.

The 3M<sup>™</sup> CoaXPress Industrial Camera Cable Assembly, 1CX Series features movable cables excellent for repetitive-motion applications. The series features repeated bending durability up to >45 million cycles.

#### 3M<sup>™</sup> CoaXPress Industrial Camera Cable Assembly, 1CXx-xx-0S

Excellent for a wide range of applications, from fixed to general motion camera application

- Flexible cable that is easy to handle
- Cable diameter: Φ4.2 mm
- CXP transmission distance up to 8M (CXP12), up to 11M (CXP-6)
- Repeated bending durability >10 million cycles<sup>1</sup>

#### 3M<sup>™</sup> CoaXPress Industrial Camera Cable Assembly, 1CXx-xx-0G

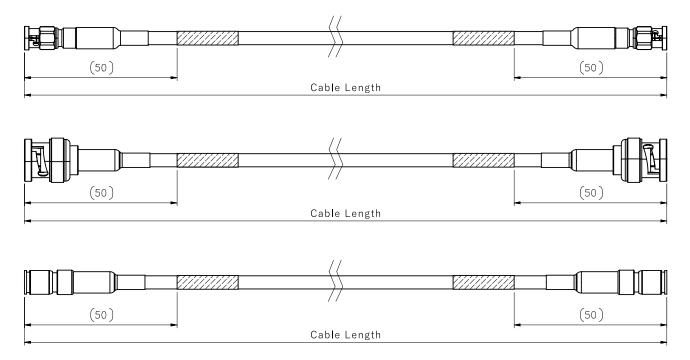
High performance thin cable achieves both high bending durability and long-distance transmission performance

- Premium flexible cable for applications requiring extended bending durability
- Cable diameter: Φ4.3 mm
- CXP transmission distance: up to 10M (CXP-12), up to 13M (CXP-6)
- Repeated bending durability >45 million cycles<sup>1</sup>

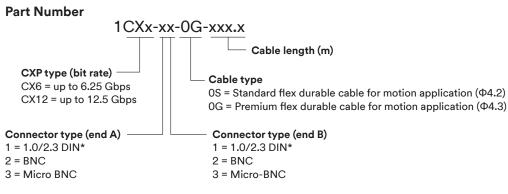


<sup>1</sup> Durability testing continuing

## Dimensions: 3M<sup>™</sup> CoaXPress Industrial Camera Cable Assembly, 1CX Series

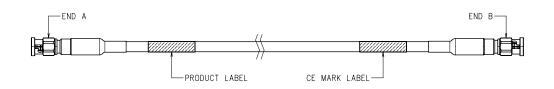


**Ordering information** 



\*1.0/2.3 DIN is not available for CX12

Connectors of different types can be combined. Contact 3M for more information.



# 3M<sup>™</sup> CoaXPress Industrial Camera Cable Assembly, 1CXx-xx-0S

	Part Number		
3m	1CX12-33-0S-003.0	1CX12-22-0S-003.0	1CX6-11-0S-003.0
4m	1CX12-33-0S-004.0	1CX12-22-0S-004.0	1CX6-11-0S-004.0
5m	1CX12-33-0S-005.0	1CX12-22-0S-005.0	1CX6-11-0S-005.0
6m	1CX12-33-0S-006.0	1CX12-22-0S-006.0	1CX6-11-0S-006.0
7m	1CX12-33-0S-007.0	1CX12-22-0S-007.0	1CX6-11-0S-007.0
8m	1CX12-33-0S-008.0	1CX12-22-0S-008.0	1CX6-11-0S-008.0
9m	1CX12-33-0S-009.0	1CX12-22-0S-009.0	1CX6-11-0S-009.0

## 3M<sup>™</sup> CoaXPress Industrial Camera Cable Assembly, 1CXx-xx-0G



	Part Number
Harness Length	Micro-BNC Connector (both A and B)
3m	1CX12-33-0G-003.0
4m	1CX12-33-0G-004.0
5m	1CX12-33-0G-005.0
6m	1CX12-33-0G-006.0
7m	1CX12-33-0G-007.0
8m	1CX12-33-0G-008.0
9m	1CX12-33-0G-009.0
10m	1CX12-33-0G-010.0

Safety Data Sheet: Consult Safety Data Sheet before use.

Regulatory: For regulatory information about this product, contact your 3M representative.

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