

**Wire and Cable Insulation and Jacketing:  
Life-Cycle Assessments  
For Selected Applications**

Acronyms and Abbreviations

Office of Pollution Prevention and Toxics  
Design for the Environment Program  
U.S. Environmental Protection Agency

---

## Acronyms and Abbreviations

ACC	American Chemistry Council
AP	acidification potentials
APME	Association of Plastics Manufacturers in Europe (now PlasticsEurope)
ATH	Aluminum trihydrate
ATO	antimony trioxide
AWG	American Wire Gauge
BIR	Bureau of International Recycling
BOD	biological oxygen demand
BOM	bills of materials
BUWAL	Swiss Agency for the Environment, Forests and Landscape
C&D	construction and demolition
CAAA	Clean Air Act Amendments
CEREMAP	Center for Research into Plastic Materials
CFC	chlorofluorocarbon
CHAMP	Chain Management of Materials and Products
CHEMS-1	Chemical Hazard Evaluation Management Strategies
CMP	plenum-rated communication wire
CMR	riser-rated communication wire
DEHP	di-2-ethylhexylphthalate
DfE	Design for the Environment
DHHS	Department of Health and Human Services
DIDP	diisodecyl phthalate
DINP	diisononyl phthalate
DOP	dioctylphthalate
DQI	data quality indicators
EOL	end-of-life
EP	eutrophication potential
EVA	ethylene vinyl acetate
FCM	Farrell Continuous Mixer
FEP	fluorinated ethylene propylene
FRPE	flame retardant polyethylene
GWP	global warming potential
HAZMAT	hazardous materials
HCFC	hydrochlorofluorocarbon
HDPE	high-density polyethylene
HEAST	Health Effects Assessment Summary Tables
HFP	hexafluoropropylene
HSDB	Hazardous Substances Data Bank
HV	hazard value
IARC	International Agency for Research on Cancer
ICEA	Insulated Cable Engineers Association
TIA/EIA	Telecommunications Industry Association/Electronics Industry Alliance
IRIS	Integrated Risk Information System

---

ISO	International Organization for Standardization
LC	limited combustible
LCA	life-cycle assessment
LCI	life-cycle inventory
LCIA	life-cycle impact analysis
LNG	liquefied natural gas
LOAEL	lowest-observed-adverse-effect level
LSF	low smoke and flame
ME&P	material extraction and processing
MITI	Ministry of International Trade and Industry
MJ	megajoule
MSW	municipal solid waste
NEC	National Electrical Code
NEMA	National Electrical Manufacturers Association
NFPA	National Fire Protection Association
NM-B	non-metallic sheathed low-voltage power cable
NOAEL	no-observed-adverse-effect level
NOEC	no-observed-effect concentration
NOEL	no-observed-effect level
NRR	non-renewable resource
OD	ozone depletion
ODP	ozone depletion potential
OEM	original equipment manufacturer
OPPT	Office of Pollution Prevention and Toxics
PAN	phthalic anhydride
PCB	printed circuit board
PE	polyethylene
PET	polyethylene terephthalate
PFOA	perfluorooctanoic acid
PFP	Perfluoropolymer
PM	particulate matter
POCP	Photochemical oxidant creation potential
POP	persistent organic pollutants
POTW	publicly-owned treatment works
Prop65	California Proposition 65
PTFE	polytetrafluoroethylene
PVC	polyvinyl chloride
PVDF	polyvinylidene fluoride
QSAR	quantitative structure-activity relationship
RAIS	Risk Assessment Information System
RCRA	Resource Conservation and Recovery Act
RoHS	Restriction of Hazardous Substances
RTECS	Registry of Toxic Effects of Chemical Substances
SAR	structure-activity relationship
SETAC	Society of Environmental Toxicology and Chemistry
SF	slope factor

---

TFE	tetrafluoroethylene
TRI	Toxics Release Inventory
TSP	total suspended particulates
TSS	total suspended solids
TURI	Toxics Use Reduction Institute
UL	Underwriters Laboratories Inc.
UTP	unshielded twisted pair
VOC	volatile organic compounds
WCP	Wire and Cable Project
WOE	weight of evidence
WTE	Waste-to-energy